



Reliability Report – 54HC244

High Speed CMOS Logic - Octal 3-State Non-Inverting Buffer / Line Driver / Line Receiver

MIL-PRF-38534 CLASS K QUALIFICATION DATAPACK

Performed by Tandex Test Labs



TANDEX

15849 Business Center Drive, Irwindale, CA 91706, U.S.A.

Phone (626) 962-7166, Fax (626) 960-6896

www.tandexlabs.com

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MIL-PRF-38534 CLASS K DATAPACK

Certificate of Conformance



TANDEX TEST LABS, INC.

15849 Business Center. Dr., Irwindale CA. 91706 U.S.A.

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<http://www.tandexlabs.com>

e-mail: via web site

Certificate of Conformance

CUSTOMER:	SILICON SUPPLIES LIMITED	DATE: November 1, 2018
	47 WHERRY ROAD NORWICH, NR1, 1WS UNITED KINGDOM VAT GB#114 3513 56	
TEST REPORT:	DDS-101-12-A	QUANTITY RECEIVED: 30 DIE
P.O. NUMBER:	SS139	QUANTITY REQUIRED: 10/5/8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PROCESSED: 17
PART NUMBER(S):	54HC244	QUANTITY PASSED: 17
P/N: AS RECEIVED / MFG. PART NUMBER:	54HC244	QUANTITY FAILED: 0
LOT / DATE CODE:	1810 LOT# 210144 WF15	
MANUFACTURE: CAGE CODE:	SILICON SUPPLIES	QUANTITY SHIPPING: 17*
		INCLUDES: 10 PROCESS ACCEPT 2 SPARES 5 BOND PULL SAMPLES
TANDEX CAGE CODE:	1FE65	**8 DIE TRANSFERRED TO DDS-101-12-W FOR SEM.

METHOD OF TESTING: MIL-PRF-38534 CL. K, MIL-STD-883

I hereby certify that the subject components have been processed and inspected in accordance with instructions with specifications referenced in your purchase order. Physical records and/or data pertinent to applicable military, proprietary, and/or commercial specifications are on file and available upon request for inspection at this facility.



Linda S. Sepulveda
QUALITY ASSURANCE



QMF 30



MIL-PRF-38534 CLASS K DATAPACK

Process Flow Chart + Mechanical Test Results



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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-12-A REV. 1

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC244 P/N AS RECEIVED: 54HC244
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-12-A
 LDC AS RECEIVED: 1810 LOT# 210144 WF15 QUANTITY RECEIVED: 30 (DIE) *20 NEW DIE
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10/5/8

*** CAUTION: ESD REFER TO TTL DRAWING #P1025***

01	FLO	P-1015 P-1223	FLOW PREPARED BY: <u>LSS</u> ON: <u>3/29/18</u> CONTRACTUAL AGREEMENT REVIEW Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NOT SPECIFIED <input checked="" type="checkbox"/> <input type="checkbox"/> Q-CLAUSES <input type="checkbox"/> <input checked="" type="checkbox"/> DPAS <input type="checkbox"/> <input checked="" type="checkbox"/> DFAR <input type="checkbox"/> <input checked="" type="checkbox"/> ITAR <input type="checkbox"/> <input type="checkbox"/> OTHER SPECIFIED							QA TANDEX 5
02	QCI		TANDEX QUALITY CONTROL INSPECTION. FLOW APPROVED BY: <u>JMI</u> ON: <u>3/29/18</u>							
03	RCV	P-1070	VERIFY PART NUMBER. ENTER INTO INCOMING LOG. <u>X</u> CUSTOMER COUNT	30				3/29/18		QA TANDEX 5
SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.		
04	VIS	P-1041	PERFORM 100% DIE VISUAL PER MIL-STD-883 METHOD 2010 AND MIL-PRF-38534 PARA C.3.3.2. * NEW DIE RECEIVED 7/16/18 EQUIPMENT USED: <u>OLYMPUS</u> ASSET #: <u>20097</u>	*20 30	0	20	<u>7/16/18</u>			TTL 4
05	ASSY	P-1029	PACKAGE SUFFICIENT DEVICES FOR CLASS K ELEMENT EVALUATION / ELECTRICAL AND BOND PULL PER MIL-PRF-38534 REFERENCE DIE GEOMETRY FOR ORIENTATION AND PIN - OUTS. DIE ATTACH: SCREENING EUTETIC *CONNECT CHIP BACK TO Vcc OR FLOAT PER SCD PG. 2 BOND PULL SEM TRANSFER TO DDS-101-12-W MIL-STD-883 METHOD 2018 Lot#: <u>149555</u> Exp. Date: <u>N/A</u>	10+2 5 8	Q	10+2	<u>8/01/18</u>			TTL 30
		P-4010	* <u>Package Type: 20 PIN DIP</u> WIRE BOND: Utilize 1 Mil Au Wire (.001) 1 Mil Au bonder <u>MECH-EL</u> Asset #: <u>20097</u> Gold Wire: Lot#: <u>9003011960</u> Exp. Date: <u>3/16/2020</u>	10+2 LA	Q	10+2	<u>8/01/18</u>			TTL 30

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15849 BUSINESS CENTER DRIVE, IRWINDALE, CA. 91706 PH: (626)962-7166 FAX: (626) 960-6896

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-12-A REV. 1

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC244 P/N AS RECEIVED: 54HC244
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-12-A
 LDC AS RECEIVED: 1810 LOT# 210144 WF15 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
06	VIS		PERFORM 100% INTERNAL VISUAL PER MIL-STD-883 METHOD 2010 & MIL-PRF-38534 C.3.3.3, C.3.3.4.2. EQUIPMENT USED: <u>NIKON SMZ645</u> ASSET #: <u>30663</u>	LA 7 10+2	0	10+2	8/2/18	TTL 30
ESD MAT DUE DATE: 8/27/18								
07	SEAL		SEAL DEVICES VACUUM BAKE: Pre Seal Bake Time: Temp: <u>125°C</u> Time: <u>24hrs</u> Actual time in: <u>7:15am - 8-6-18</u> Actual time out: <u>8:30am - 8-7-18</u> FURNACE LDC STAMP Actual temp: <u>125°C</u>	10+2	0	10+2	8/7/18	TTL 30
ESD MAT DUE DATE: 8/27/18								
			1831					TTL 30
08	ELEC		PERFORM 100% ELECTRICAL VERIFICATION TEST PER MFG DATA SHEET AND MIL-PRF-38534 @ AMBIENT OPERATING TEMPERATURE GO / NO GO EQUIPMENT USED: <u>Sony</u> ASSET #: <u>1093</u> +25°C TEST FIXTURE: <u>1377/1203</u> SOFTWARE ID: <u>4HC244</u> REV <u>N/A</u>	10+2	0	10+2	8/7/18	TTL 48
ESD MAT DUE DATE: / /								
09	TEMP		PERFORM TEMPERATURE CYCLING PER MIL-STD-883 METHOD 1010 CONDITION C & MIL-PRF-38534 C.3.3.3. TEN (10) CYCLES TA = -65°C +0/-10 to +150°C +15/-0 10 MINUTES AT EXTREMES DATE IN TIME IN DATE OUT TIME OUT	10+2 10+2	0 0	10+2 10+2	8/8/18 8:14AM 8/8/18 12:58PM	TTL 48 TTL 48
ESD MAT DUE DATE: / /								
			EQUIPMENT USED: <u>DELTA DESIGN</u> ASSET #: <u>30626</u> EQUIPMENT USED: <u>OMEGA HA309A</u> ASSET #: <u>31567</u>					
10	ACCE		PERFORM CONSTANT ACCELERATION PER MIL-PRF-38534 MIL-STD-883 METHOD 2001. Y1 DIRECTION ONLY @ 3000 G's (min) EQUIPMENT USED: <u>Trio Tech</u> ASSET #: <u>30260</u>	10+2	0	10+2	8/9/18	TTL 52
ESD MAT DUE DATE: / /								
11	SER		SERIALIZE S/N: <u>01-10 12 th</u>	10+2	0	10+2	8/9/18	TTL 40
ESD MAT DUE DATE: 8/27/18								

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-12-A REV. 1

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC244 P/N AS RECEIVED: 54HC244
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-12-A
 LDC AS RECEIVED: 1810 LOT# 210144 WF15 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 105/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEP	DATE	INSP.
12	ELEC		PERFORM 100% ELECTRICAL VERIFICATION PER MFG DATA SHEET3 AND MIL-PRF-38534 C.3.3.4.3 @ AMBIENT, HIGH AND LOW OPERATING TEMPERATURES. READ AND RECORD. STATIC AND FUNCTIONAL TESTS +25°C -55°C +125°C EQUIPMENT USED: <u>Sentry 1</u> ASSET#: <u>1093</u> TEST FIXTURE: <u>1377/1208</u> SOFTWARE ID: <u>44c244</u> REV <u>N/A</u> TEMPERATURE SOAK <u>10</u> SEC.	12 12 12	0 0 0	12 12 12	8/14/18 8/15/18 8/15/18	off off off
13	BI		PERFORM BURN IN PER BURN IN CIRCUIT PER FIGURE 1 OF DWG# 1026-16668, AND MIL-STD 883 METHOD 1015. TA = 125°C (min) T = 240 HRS (min) BURN-IN BOARD # / DESC: <u>15125</u> BURN-IN OVEN #: <u>21</u>	12 12	0 0	12 12	8/16/18 5:00 AM 8/27/18 5:30 AM	TTL 13 TTL 13
14	ELEC		PERFORM POST BURN IN ELECTRICAL VERIFICATION PER MFG DATA SHEET AND MIL-PRF-38534 C.3.3.4.3 @ AMBIENT, HIGH AND LOW OPERATING TEMPERATURES. READ AND RECORD. STATIC AND FUNCTIONAL TESTS +25°C -55°C +125°C TEST +25°C WITHIN 96 HOURS EQUIPMENT USED: <u>Sentry 1</u> ASSET#: <u>1093</u> TEST FIXTURE: <u>1377/1208</u> SOFTWARE ID: <u>44c244</u> REV <u>—</u> TEMPERATURE SOAK <u>10</u> SEC.	12 12 12	0 0 0	12 12 12	8/27/18 8/27/18 8/27/18	TTL 27 TTL 27 TTL 27
15	ER		PER PO REQUIREMENTS: REVIEW AT POST 240 HR. BURN-IN EMAIL: ben.white@diodevics.com POST 240 HR BURN-IN ELECTRICAL TEST DATA. HOLD FOR APPROVAL TO PROCEED DATE SENT: <u>8/29/18</u>				8/29/18	QA TANDEX 5

ESD MAT DUE DATE:
 / /

ESD MAT DUE DATE:
 / /

ESD MAT DUE DATE:
9/27/18

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DPS-101-12-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54 HC 244

TEMP. METER # 31368

DATE CODE 1810 LOT # 210144 W F 15

VOLTAGE VCC = +5V

BURN-IN TIME 240 hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 30721

BOARD# 15125

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
8/16/18	9:00 AM	VCC = +5V	ICC = .01A	126.3°C	CM	
8/17/18	9:35 AM	VCC = +5V	ICC = .01A	124.1°C	CM	
8/20/18	6:00 AM	VCC = +5V	ICC = .01A	125.4°C	CM	
8/21/18	7:05 AM	VCC = +5V	ICC = .01A	125.5°C	CM	
8/22/18	9:55 AM	VCC = +5V	ICC = .01A	125.9°C	CM	
8/23/18	7:00 AM	VCC = +5V	ICC = .01A	125.3°C	CM	
8/24/18	6:45 AM	VCC = +5V	ICC = .01A	125.6°C	CM	
8/27/18	5:30 AM	VCC = +5V	ICC = .01A	125.8°C	CM	

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PROCESS FLOW CHART

FLOW NUMBER: DDS-101-12-A REV. 1

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC244 P/N AS RECEIVED: 54HC244
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-12-A
 LDC AS RECEIVED: 1810 LOT# 210144 WF15 QUANTITY RECEIVED: 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED: 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
16	SSL		PERFORM STEADY STATE LIFE TEST PER MIL-PRF-38534 AND MIL-STD 883 METHOD 1005. TA = 125°C (min) T = 1000 HRS (min) DATE IN: 8/22/18 TIME IN: 2:00PM DATE OUT: 10/10/18 TIME OUT: 6:00AM BURN-IN BOARD # / DESC: <u>15125</u> BURN-IN OVEN #: <u>21</u>	12	0	12		TTL 13
ESD MAT DUE DATE: <u>10/27/18</u>								
17	ELEC		PERFORM POST STEADY STATE LIFE ELECTRICAL VERIFICATION PER MFG DATA SHEET AND MIL-PRF-38534 C.3.3.4.3. @ AMBIENT, HIGH AND LOW OPERATING TEMPERATURE. READ AND RECORD. STATIC AND FUNCTIONAL TESTS +25°C 12 0 12 10/10/18 -55°C 12 0 12 10/10/18 +125°C 12 0 12 10/10/18 TEST +25°C WITHIN 96 HOURS EQUIPMENT USED: <u>Sentry</u> ASSET#: <u>1093</u> TEST FIXTURE: <u>1377/1208</u> SOFTWARE ID: <u>HC244</u> REV <u> </u>					TTL 6 TTL 6 TTL 6
ESD MAT DUE DATE: <u>10/27/18</u>								
18	DBP		PERFORM WIRE BOND PULL PER MIL-STD-883 METHOD 2011, & MIL-PRF-38534 C.3.3.3, C3.3.5. TEN (10) WIRES, *DO NOT USE ELECTRICAL TEST SAMPLES* EQUIPMENT USED: <u>DAGE</u> ASSET #: <u>30075</u>	5	0	5	7/25/18	TTL 4
19	SEM		PULLED 8 DEVICES AT SEQ. 05 AND TRANSFERRED TO: DDS-101-12-W	8		8	11/2/18	QA TANDEX 5

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

PAGE 1 OF 4

JOB NUMBER DDS-101-12-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC244

TEMP. METER # 31368

DATE CODE 1810 LOT # 210144 WF15

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 31223

ΘJC = N/A

POWER SUPPLY# 30803

BOARD# 15125

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
8/29/18	2:00PM	VCC = +5VDC	ICC = .01A	126.3°C	CM	
8/30/18	6:00AM	VCC = +5VDC	ICC = .01A	125.8°C	CM	
8/31/18	5:30AM	VCC = +5VDC	ICC = .01A	126.3°C	CM	
9/3/18	NO	DATA	TAKEN			
9/4/18	6:00AM	VCC = +5VDC	ICC = .01A	126.8°C	CM	
9/5/18	7:30AM	VCC = +5VDC	ICC = .01A	125.5°C	CM	
9/6/18	10:00AM	VCC = +5VDC	ICC = .01A	126.0°C	CM	
9/7/18	5:50AM	VCC = +5VDC	ICC = .01A	126.6°C	CM	
9/10/18	7:00AM	VCC = +5VDC	ICC = .01A	126.2°C	CM	

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

PAGE 2 OF 4

JOB NUMBER DDS-101-12-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC244

TEMP. METER # 31368

DATE CODE 1810 LOT # 210144 WF15

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 32223

θJC = N/A

POWER SUPPLY# 30803

BOARD# 15125

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
9/11/18	6:00AM	VCC = +5VDC	ICC = .01A	126.0°C	CM	
9/12/18	NO	DATA	TAKEN			
9/13/18	9:05AM	VCC = +5VDC	ICC = .01A	125.8°C	CM	
9/14/18	8:55AM	VCC = +5VDC	ICC = .01A	126.5°C	CM	
9/17/18	8:00AM	VCC = +5VDC	ICC = .01A	126.4°C	CM	
9/18/18	5:50AM	VCC = +5VDC	ICC = .01A	126.6°C	CM	
9/19/18	5:30AM	VCC = +5VDC	ICC = .01A	126.2°C	CM	
9/20/18	7:30AM	VCC = +5VDC	ICC = .01A	126.3°C	CM	
9/21/18	NO	DATA	TAKEN			

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-12-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC244

TEMP. METER # 31368

DATE CODE 1810 LOT # 210144 WF15

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 32223

θJC = N/A

POWER SUPPLY# 30803

BOARD# 15125

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
9/24/18	N/A	DATA	TAKEN			
9/25/18	5:30AM	VCC = +5VDC	ICC = .01A	126.2°C	CM	
9/26/18	6:00AM	VCC = +5VDC	ICC = .01A	126.3°C	CM	
9/27/18	6:30AM	VCC = +5VDC	ICC = .01A	126.7°C	CM	
9/28/18	6:50AM	VCC = +5VDC	ICC = .01A	127.2°C	CM	
10/1/18	6:00AM	VCC = +5VDC	ICC = .01A	127.7°C	CM	
10/2/18	8:40AM	VCC = +5VDC	ICC = .01A	126.6°C	CM	
10/3/18	7:30AM	VCC = +5VDC	ICC = .01A	127.4°C	CM	
10/4/18	7:00AM	VCC = +5VDC	ICC = .01A	125.5°C	CM	
10/5/18	6:00AM	VCC = +5VDC	ICC = .01A	127.6°C	CM	

TANDEX TEST LABS
 BURN - IN MONITOR SHEET

JOB NUMBER DDS-101-12-A

TEMPERATURE TA = +125°C Min

PART NUMBER 54HC244

TEMP. METER # 31368

DATE CODE 1810 LOT # 210144 WF15

VOLTAGE VCC = +5VDC

BURN-IN TIME 1000hrs Min

VOLT METER# 32223

ΘJC = N/A

POWER SUPPLY# 30803

BOARD# 15125

OVEN# 21

DATE	TIME	VOLTAGE	CURRENT	TEMP.	INITIAL	COMMENTS
10/8/18	5:30AM	VCC = +5VDC	ICC = 0.1A	127.1°C	CM	
10/9/18	NO	DATA	TAKEN			
10/10/18	6:00AM	VCC = +5VDC	ICC = 0.1A	126.8°C	CM	

BOND PULL
BOND STRENGTH TESTING

TTL Job No. DDS-101-12-A	Part Number 54HC244	Part Type CMOS LOGIC MICROCIRCUIT	Date July 25, 2018
Lot Date Code LOT# 210144 W# 15 1810	Sample Qty. 5	Serial Numbers 11-15	Test Specifications Mil-Std-883 Method 2011
Misc.	Qty Accept 5	Qty Reject 0	Suspect 0

WIRE TYPE Au	PACKAGE/POST Au	BOND TYPE BALL BOND
DIE METALIZATION Al	WIRE SIZE 0.001	MINIMUM PULL STRENGTH 2.5gm

S/N 11			S/N 12			S/N 13			S/N 14			S/N 15			S/N		
WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE	WIRE NO	FORCE	CODE
1	5.0	G	1	4.5	G	1	7.0	G	1	4.5	G	1	4.0	G	1		
2	5.0	G	2	5.0	G	2	6.0	G	2	4.5	G	2	3.5	G	2		
3			3			3			3			3			3		
4			4			4			4			4			4		
5			5			5			5			5			5		

CODE INDEX

- A. NO BREAKS UP TO _____gms.
 B. BOND LIFTS FROM DIE.
 C. BOND LIFTS FROM POST.
 D. WIRE BREAKS AT SUBSTRATE/HEAL.
 E. BOND REMOVES UNDERLYING METALLIZATION.
 F. NO CONNECTION.
 G. WIRE BREAKS AT DIE/HEAL.
 H. WIRE BREAKS AT POST/HEAL.
 J. WIRE BREAKS AT SPAN.
 X. BOND DAMAGE PRIOR TO TESTING.



TECHNICIAN STAMP: _____

TANDEX TEST LABS INC.

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15849 BUSINESS CENTER DRIVE, IRWINDALE, CA. 91706 PH: (626)962-7166 FAX: (626) 960-6896

PROCESS FLOW CHART

FLOW NUMBER: DDS-101-12-A REV. 1

CUSTOMER: DIE DEVICES P.O. NUMBER: SS139
 PART NUMBER: 54HC244 P/N AS RECEIVED: 54HC244
 PART TYPE: CMOS LOGIC MICROCIRCUIT DRAWING: MIL-PRF-38534 CL K, MIL-STD-883
 DUE DATE: 7/12/18 JOB NUMBER: DDS-101-12-A
 LDC AS RECEIVED: 1810 LOT# 210144 WF15 QUANTITY RECEIVED : 30 (DIE)
 QUOTE NUMBER: DDS14267-1 MFG: SILICON SUPPLIES QUANTITY REQUIRED : 10/5/8

CAUTION: ESD REFER TO TTL DRAWING #P1025

SEQ	PROC	REF #	DESCRIPTION	QTY	REJ	ACCEPT	DATE	INSP.
20	QCI	P-1073	TANDEX QUALITY CONTROL INSPECTION. QCI TO VERIFY CAR IN SEQ. 01 IS COMPLIANT	17	Ø	17	11/1/18	QA TANDEX 5
21	PKG		USE ORIGINAL OR TANDEX PACKAGING.	17	Ø	17	11/1/18	QA TANDEX 5
22	QAR	P-1213	TANDEX QUALITY ASSURANCE REVIEW. SHIP VIA: SHIP / BILL TO: DIE DEVICES 47 WHERRY ROAD NORWICH, NR1, 1WS UNITED KINGDOM VAT GB#114 3513 56 * INCLUDES 10 ACCEPT 5 BOND PULL 2 SPARES ** 8 TRANSFERRED TO DDS-101-12-A FOR SEM	* 17			11/1/18	QA TANDEX 5



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at -55°C



STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 1
DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-680.0MV	-1.500 V	-100.0MV
58	2	-680.0MV	-1.500 V	-100.0MV
58	4	-690.0MV	-1.500 V	-100.0MV
58	6	-690.0MV	-1.500 V	-100.0MV
58	8	-690.0MV	-1.500 V	-100.0MV
58	11	-690.0MV	-1.500 V	-100.0MV
58	13	-690.0MV	-1.500 V	-100.0MV
58	15	-690.0MV	-1.500 V	-100.0MV
58	17	-690.0MV	-1.500 V	-100.0MV
58	19	-690.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	490.0MV	100.0MV	1.500 V
68	7	490.0MV	100.0MV	1.500 V
68	9	490.0MV	100.0MV	1.500 V
68	12	500.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	500.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST

VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.830 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	100.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	104.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	104.0MV		260.0MV
433	14	104.0MV		260.0MV
439	16	108.0MV		260.0MV
445	18	158.0MV		260.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.320 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	120.0MV		260.0MV
409	5	118.0MV		260.0MV
415	7	124.0MV		260.0MV
421	9	124.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	126.0MV		260.0MV
439	16	128.0MV		260.0MV
445	18	150.0MV		260.0MV

FUNCTIONAL TEST

VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.850 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.840 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.830 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	56.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	56.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	142.0MV		260.0MV
409	5	138.0MV		260.0MV
415	7	146.0MV		260.0MV
421	9	142.0MV		260.0MV
427	12	142.0MV		260.0MV
433	14	148.0MV		260.0MV
439	16	150.0MV		260.0MV
445	18	172.0MV		260.0MV

IIN TEST

VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
476     1   -3.000NA    -100.0NA    100.0NA  
479     1    2.000NA    -100.0NA    100.0NA  
484     2   -4.000NA    -100.0NA    100.0NA  
487     2    2.000NA    -100.0NA    100.0NA  
492     4   -4.000NA    -100.0NA    100.0NA  
495     4    2.000NA    -100.0NA    100.0NA  
500     6   -4.000NA    -100.0NA    100.0NA  
503     6    2.000NA    -100.0NA    100.0NA  
508     8   -4.000NA    -100.0NA    100.0NA  
511     8    2.000NA    -100.0NA    100.0NA  
516    11   -4.000NA    -100.0NA    100.0NA  
519    11    2.000NA    -100.0NA    100.0NA  
524    13   -4.000NA    -100.0NA    100.0NA  
527    13    2.000NA    -100.0NA    100.0NA  
532    15   -4.000NA    -100.0NA    100.0NA  
535    15    2.000NA    -100.0NA    100.0NA  
540    17   -4.000NA    -100.0NA    100.0NA  
543    17    2.000NA    -100.0NA    100.0NA  
548    19   -4.000NA    -100.0NA    100.0NA  
551    19    1.000NA    -100.0NA    100.0NA
```

```
-----  
IOZ TEST  
VCC= 6  
IOZ LIMIT +- 0.5UA @25C/-55C  
IOZ LIMIT +- 10UA @+125C  
-----
```

```
INST #  PIN  MEASURED      LT          GT  
578     3   -3.000NA    -100.0NA    100.0NA  
581     3    2.000NA    -100.0NA    100.0NA  
586     5   -4.000NA    -100.0NA    100.0NA  
589     5    2.000NA    -100.0NA    100.0NA  
594     7   -4.000NA    -100.0NA    100.0NA  
597     7    2.000NA    -100.0NA    100.0NA  
602     9   -4.000NA    -100.0NA    100.0NA  
605     9    2.000NA    -100.0NA    100.0NA  
613    12   -4.000NA    -100.0NA    100.0NA  
616    12    2.000NA    -100.0NA    100.0NA  
621    14   -4.000NA    -100.0NA    100.0NA  
624    14    2.000NA    -100.0NA    100.0NA  
629    16   -4.000NA    -100.0NA    100.0NA  
632    16    2.000NA    -100.0NA    100.0NA  
637    18   -4.000NA    -100.0NA    100.0NA  
640    18    2.000NA    -100.0NA    100.0NA
```

```
-----  
ICC TEST  
VCC= 6  
ICC LIMIT MAX. 4.0UA @25C/-55C  
ICC LIMIT MAX. 160UA @+125C  
-----
```

```
INST #  PIN  MEASURED      LT          GT  
672    20    1.000NA  
679    20  -11.00NA      4.000UA     4.000UA
```

```
EIR 1.....10    FCT    DCT  
000000000    PASS    PASS    EOT
```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 2

DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-680.0MV	-1.500 V	-100.0MV
58	2	-680.0MV	-1.500 V	-100.0MV
58	4	-680.0MV	-1.500 V	-100.0MV
58	6	-680.0MV	-1.500 V	-100.0MV
58	8	-680.0MV	-1.500 V	-100.0MV
58	11	-680.0MV	-1.500 V	-100.0MV
58	13	-690.0MV	-1.500 V	-100.0MV
58	15	-680.0MV	-1.500 V	-100.0MV
58	17	-680.0MV	-1.500 V	-100.0MV
58	19	-690.0MV	-1.500 V	-100.0MV
68	3	490.0MV	100.0MV	1.500 V
68	5	490.0MV	100.0MV	1.500 V
68	7	490.0MV	100.0MV	1.500 V
68	9	490.0MV	100.0MV	1.500 V
68	12	490.0MV	100.0MV	1.500 V
68	14	490.0MV	100.0MV	1.500 V
68	16	490.0MV	100.0MV	1.500 V
68	18	490.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.890 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	100.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	102.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	102.0MV		260.0MV
433	14	102.0MV		260.0MV
439	16	104.0MV		260.0MV
445	18	114.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.330 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	120.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	122.0MV		260.0MV
421	9	124.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	122.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	146.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.850 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.850 V	5.480 V	
311	16	5.850 V	5.480 V	
317	18	5.840 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	58.00MV		100.0MV
344	5	58.00MV		100.0MV
350	7	58.00MV		100.0MV
356	9	56.00MV		100.0MV
362	12	58.00MV		100.0MV
368	14	58.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	58.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	142.0MV		260.0MV
409	5	136.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	146.0MV		260.0MV
427	12	140.0MV		260.0MV
433	14	146.0MV		260.0MV
439	16	150.0MV		260.0MV
445	18	170.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	1.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-11.00NA		4.000UA

```

EIR 1.....10      FCT      DCT
      0000000000    PASS     PASS     EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 3

DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-680.0MV	-1.500 V	-100.0MV
58	2	-690.0MV	-1.500 V	-100.0MV
58	4	-690.0MV	-1.500 V	-100.0MV
58	6	-690.0MV	-1.500 V	-100.0MV
58	8	-690.0MV	-1.500 V	-100.0MV
58	11	-690.0MV	-1.500 V	-100.0MV
58	13	-690.0MV	-1.500 V	-100.0MV
58	15	-690.0MV	-1.500 V	-100.0MV
58	17	-690.0MV	-1.500 V	-100.0MV
58	19	-690.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	500.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	500.0MV	100.0MV	1.500 V
68	12	500.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	500.0MV	100.0MV	1.500 V
68	18	490.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	108.0MV		260.0MV
409	5	104.0MV		260.0MV
415	7	122.0MV		260.0MV
421	9	110.0MV		260.0MV
427	12	108.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	114.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	128.0MV		260.0MV
409	5	124.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	132.0MV		260.0MV
427	12	130.0MV		260.0MV
433	14	134.0MV		260.0MV
439	16	138.0MV		260.0MV
445	18	150.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.980 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.830 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.840 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.820 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	60.00MV		100.0MV
344	5	58.00MV		100.0MV
350	7	60.00MV		100.0MV
356	9	56.00MV		100.0MV
362	12	58.00MV		100.0MV
368	14	58.00MV		100.0MV
374	16	60.00MV		100.0MV
380	18	60.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		260.0MV
409	5	148.0MV		260.0MV
415	7	162.0MV		260.0MV
421	9	154.0MV		260.0MV
427	12	150.0MV		260.0MV
433	14	156.0MV		260.0MV
439	16	162.0MV		260.0MV
445	18	180.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	5.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	4.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	6.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	2.000NA		4.000UA
679	20	-11.00NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 4

DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-690.0MV	-1.500 V	-100.0MV
58	2	-700.0MV	-1.500 V	-100.0MV
58	4	-690.0MV	-1.500 V	-100.0MV
58	6	-690.0MV	-1.500 V	-100.0MV
58	8	-700.0MV	-1.500 V	-100.0MV
58	11	-690.0MV	-1.500 V	-100.0MV
58	13	-700.0MV	-1.500 V	-100.0MV
58	15	-700.0MV	-1.500 V	-100.0MV
58	17	-700.0MV	-1.500 V	-100.0MV
58	19	-700.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	500.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	500.0MV	100.0MV	1.500 V
68	12	500.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	510.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.870 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	102.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	106.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	104.0MV		260.0MV
433	14	118.0MV		260.0MV
439	16	110.0MV		260.0MV
445	18	116.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.300 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	120.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	126.0MV		260.0MV
421	9	122.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	146.0MV		260.0MV
439	16	134.0MV		260.0MV
445	18	144.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.980 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		260.0MV
409	5	134.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	138.0MV		260.0MV
433	14	158.0MV		260.0MV
439	16	152.0MV		260.0MV
445	18	168.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	4.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-10.00NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 5
DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-690.0MV	-1.500 V	-100.0MV
58	2	-690.0MV	-1.500 V	-100.0MV
58	4	-690.0MV	-1.500 V	-100.0MV
58	6	-690.0MV	-1.500 V	-100.0MV
58	8	-690.0MV	-1.500 V	-100.0MV
58	11	-690.0MV	-1.500 V	-100.0MV
58	13	-690.0MV	-1.500 V	-100.0MV
58	15	-690.0MV	-1.500 V	-100.0MV
58	17	-690.0MV	-1.500 V	-100.0MV
58	19	-690.0MV	-1.500 V	-100.0MV
68	3	490.0MV	100.0MV	1.500 V
68	5	490.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	490.0MV	100.0MV	1.500 V
68	12	490.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	500.0MV	100.0MV	1.500 V
68	18	490.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	100.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	112.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	104.0MV		260.0MV
433	14	106.0MV		260.0MV
439	16	102.0MV		260.0MV
445	18	114.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.330 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	118.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	130.0MV		260.0MV
421	9	124.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	130.0MV		260.0MV
439	16	126.0MV		260.0MV
445	18	142.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	56.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		260.0MV
409	5	134.0MV		260.0MV
415	7	148.0MV		260.0MV
421	9	144.0MV		260.0MV
427	12	142.0MV		260.0MV
433	14	150.0MV		260.0MV
439	16	148.0MV		260.0MV
445	18	168.0MV		260.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	7.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	4.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	9.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-10.00NA		4.000UA

```

EIR 1.....10      FCT      DCT
      0000000000    PASS     PASS     EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 6

DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-680.0MV	-1.500 V	-100.0MV
58	2	-680.0MV	-1.500 V	-100.0MV
58	4	-680.0MV	-1.500 V	-100.0MV
58	6	-680.0MV	-1.500 V	-100.0MV
58	8	-680.0MV	-1.500 V	-100.0MV
58	11	-680.0MV	-1.500 V	-100.0MV
58	13	-680.0MV	-1.500 V	-100.0MV
58	15	-680.0MV	-1.500 V	-100.0MV
58	17	-680.0MV	-1.500 V	-100.0MV
58	19	-680.0MV	-1.500 V	-100.0MV
68	3	490.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	490.0MV	100.0MV	1.500 V
68	9	480.0MV	100.0MV	1.500 V
68	12	480.0MV	100.0MV	1.500 V
68	14	480.0MV	100.0MV	1.500 V
68	16	480.0MV	100.0MV	1.500 V
68	18	490.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	106.0MV		260.0MV
409	5	102.0MV		260.0MV
415	7	112.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	102.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	110.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.310 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	122.0MV		260.0MV
409	5	118.0MV		260.0MV
415	7	134.0MV		260.0MV
421	9	120.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	132.0MV		260.0MV
439	16	132.0MV		260.0MV
445	18	144.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.820 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	140.0MV		260.0MV
409	5	132.0MV		260.0MV
415	7	144.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	134.0MV		260.0MV
433	14	150.0MV		260.0MV
439	16	148.0MV		260.0MV
445	18	168.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-10.00NA		4.000UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 7
DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-690.0MV	-1.500 V	-100.0MV
58	2	-690.0MV	-1.500 V	-100.0MV
58	4	-690.0MV	-1.500 V	-100.0MV
58	6	-690.0MV	-1.500 V	-100.0MV
58	8	-690.0MV	-1.500 V	-100.0MV
58	11	-690.0MV	-1.500 V	-100.0MV
58	13	-690.0MV	-1.500 V	-100.0MV
58	15	-690.0MV	-1.500 V	-100.0MV
58	17	-690.0MV	-1.500 V	-100.0MV
58	19	-690.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	500.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	500.0MV	100.0MV	1.500 V
68	12	500.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	500.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.970 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	100.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	104.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	102.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	110.0MV		260.0MV
445	18	116.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	116.0MV		260.0MV
409	5	114.0MV		260.0MV
415	7	124.0MV		260.0MV
421	9	118.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	132.0MV		260.0MV
439	16	130.0MV		260.0MV
445	18	142.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.980 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.820 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		260.0MV
409	5	126.0MV		260.0MV
415	7	140.0MV		260.0MV
421	9	132.0MV		260.0MV
427	12	134.0MV		260.0MV
433	14	152.0MV		260.0MV
439	16	148.0MV		260.0MV
445	18	164.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	31.00NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-3.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	16.00NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	31.00NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-10.00NA		4.000UA

```

EIR 1.....10      FCT      DCT
      0000000000    PASS     PASS     EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 8

DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-690.0MV	-1.500 V	-100.0MV
58	2	-690.0MV	-1.500 V	-100.0MV
58	4	-690.0MV	-1.500 V	-100.0MV
58	6	-690.0MV	-1.500 V	-100.0MV
58	8	-690.0MV	-1.500 V	-100.0MV
58	11	-690.0MV	-1.500 V	-100.0MV
58	13	-690.0MV	-1.500 V	-100.0MV
58	15	-690.0MV	-1.500 V	-100.0MV
58	17	-690.0MV	-1.500 V	-100.0MV
58	19	-690.0MV	-1.500 V	-100.0MV
68	3	490.0MV	100.0MV	1.500 V
68	5	490.0MV	100.0MV	1.500 V
68	7	480.0MV	100.0MV	1.500 V
68	9	480.0MV	100.0MV	1.500 V
68	12	490.0MV	100.0MV	1.500 V
68	14	490.0MV	100.0MV	1.500 V
68	16	490.0MV	100.0MV	1.500 V
68	18	490.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.890 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	98.00MV		260.0MV
409	5	94.00MV		260.0MV
415	7	100.0MV		260.0MV
421	9	98.00MV		260.0MV
427	12	96.00MV		260.0MV
433	14	108.0MV		260.0MV
439	16	106.0MV		260.0MV
445	18	112.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.460 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.350 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	116.0MV		260.0MV
409	5	110.0MV		260.0MV
415	7	120.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	112.0MV		260.0MV
433	14	134.0MV		260.0MV
439	16	128.0MV		260.0MV
445	18	140.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.850 V	5.480 V	
293	9	5.860 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	56.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	56.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	56.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	136.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	136.0MV		260.0MV
427	12	132.0MV		260.0MV
433	14	154.0MV		260.0MV
439	16	152.0MV		260.0MV
445	18	168.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	1.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-10.00NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 9

DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-690.0MV	-1.500 V	-100.0MV
58	2	-690.0MV	-1.500 V	-100.0MV
58	4	-690.0MV	-1.500 V	-100.0MV
58	6	-690.0MV	-1.500 V	-100.0MV
58	8	-690.0MV	-1.500 V	-100.0MV
58	11	-700.0MV	-1.500 V	-100.0MV
58	13	-700.0MV	-1.500 V	-100.0MV
58	15	-700.0MV	-1.500 V	-100.0MV
58	17	-690.0MV	-1.500 V	-100.0MV
58	19	-700.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	500.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	500.0MV	100.0MV	1.500 V
68	12	500.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	500.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	102.0MV		260.0MV
409	5	100.0MV		260.0MV
415	7	102.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	104.0MV		260.0MV
433	14	118.0MV		260.0MV
439	16	110.0MV		260.0MV
445	18	116.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	116.0MV		260.0MV
409	5	114.0MV		260.0MV
415	7	120.0MV		260.0MV
421	9	120.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	140.0MV		260.0MV
439	16	130.0MV		260.0MV
445	18	142.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.980 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.820 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		260.0MV
409	5	128.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	132.0MV		260.0MV
427	12	134.0MV		260.0MV
433	14	156.0MV		260.0MV
439	16	148.0MV		260.0MV
445	18	166.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-3.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	4.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-10.00NA		4.000UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

```

STAT1              05/29/11 07:07
TEST PROGRAM      HC244          S/N          10

```

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-670.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-680.0MV	-1.500 V	-100.0MV
58	6	-670.0MV	-1.500 V	-100.0MV
58	8	-680.0MV	-1.500 V	-100.0MV
58	11	-680.0MV	-1.500 V	-100.0MV
58	13	-680.0MV	-1.500 V	-100.0MV
58	15	-680.0MV	-1.500 V	-100.0MV
58	17	-680.0MV	-1.500 V	-100.0MV
58	19	-680.0MV	-1.500 V	-100.0MV
68	3	480.0MV	100.0MV	1.500 V
68	5	490.0MV	100.0MV	1.500 V
68	7	490.0MV	100.0MV	1.500 V
68	9	490.0MV	100.0MV	1.500 V
68	12	490.0MV	100.0MV	1.500 V
68	14	490.0MV	100.0MV	1.500 V
68	16	490.0MV	100.0MV	1.500 V
68	18	490.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.850 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.860 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	106.0MV		260.0MV
409	5	104.0MV		260.0MV
415	7	110.0MV		260.0MV
421	9	108.0MV		260.0MV
427	12	110.0MV		260.0MV
433	14	120.0MV		260.0MV
439	16	114.0MV		260.0MV
445	18	122.0MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.460 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.460 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.310 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	38.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	124.0MV		260.0MV
409	5	120.0MV		260.0MV
415	7	132.0MV		260.0MV
421	9	128.0MV		260.0MV
427	12	126.0MV		260.0MV
433	14	146.0MV		260.0MV
439	16	136.0MV		260.0MV
445	18	152.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.830 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.810 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.810 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	50.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	140.0MV		260.0MV
409	5	134.0MV		260.0MV
415	7	148.0MV		260.0MV
421	9	144.0MV		260.0MV
427	12	142.0MV		260.0MV
433	14	164.0MV		260.0MV
439	16	156.0MV		260.0MV
445	18	174.0MV		260.0MV

IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C

IIL/IIH LIMIT +- 1.0UA @+125C

```
-----  
INST #  PIN  MEASURED      LT      GT  
476     1  -3.000NA    -100.0NA  100.0NA  
479     1   2.000NA    -100.0NA  100.0NA  
484     2  -4.000NA    -100.0NA  100.0NA  
487     2   2.000NA    -100.0NA  100.0NA  
492     4  -4.000NA    -100.0NA  100.0NA  
495     4   2.000NA    -100.0NA  100.0NA  
500     6  -4.000NA    -100.0NA  100.0NA  
503     6   2.000NA    -100.0NA  100.0NA  
508     8  -4.000NA    -100.0NA  100.0NA  
511     8   2.000NA    -100.0NA  100.0NA  
516    11  -4.000NA    -100.0NA  100.0NA  
519    11   2.000NA    -100.0NA  100.0NA  
524    13  -4.000NA    -100.0NA  100.0NA  
527    13   2.000NA    -100.0NA  100.0NA  
532    15  -4.000NA    -100.0NA  100.0NA  
535    15   2.000NA    -100.0NA  100.0NA  
540    17  -4.000NA    -100.0NA  100.0NA  
543    17   2.000NA    -100.0NA  100.0NA  
548    19  -4.000NA    -100.0NA  100.0NA  
551    19   2.000NA    -100.0NA  100.0NA  
-----
```

```
-----  
IOZ TEST  
VCC= 6  
IOZ LIMIT +- 0.5UA @25C/-55C  
IOZ LIMIT +- 10UA @+125C  
-----
```

```
INST #  PIN  MEASURED      LT      GT  
578     3  -4.000NA    -100.0NA  100.0NA  
581     3   2.000NA    -100.0NA  100.0NA  
586     5  -4.000NA    -100.0NA  100.0NA  
589     5   2.000NA    -100.0NA  100.0NA  
594     7  -4.000NA    -100.0NA  100.0NA  
597     7   2.000NA    -100.0NA  100.0NA  
602     9  -5.000NA    -100.0NA  100.0NA  
605     9   2.000NA    -100.0NA  100.0NA  
613    12  -4.000NA    -100.0NA  100.0NA  
616    12   2.000NA    -100.0NA  100.0NA  
621    14  -4.000NA    -100.0NA  100.0NA  
624    14   2.000NA    -100.0NA  100.0NA  
629    16  -4.000NA    -100.0NA  100.0NA  
632    16   2.000NA    -100.0NA  100.0NA  
637    18  -4.000NA    -100.0NA  100.0NA  
640    18   2.000NA    -100.0NA  100.0NA  
-----
```

```
-----  
ICC TEST  
VCC= 6  
ICC LIMIT MAX. 4.0UA @25C/-55C  
ICC LIMIT MAX. 160UA @+125C  
-----
```

```
INST #  PIN  MEASURED      LT      GT  
672    20   1.000NA      4.000UA  
679    20  -10.00NA     4.000UA
```

```
EIR 1.....10    FCT    DCT  
0000000000    PASS    PASS    EOT
```

```
STAT1                05/29/11  07:07  
TEST PROGRAM    HC244                S/N      11
```

```
DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C
```

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-700.0MV	-1.500 V	-100.0MV
58	2	-700.0MV	-1.500 V	-100.0MV
58	4	-700.0MV	-1.500 V	-100.0MV
58	6	-700.0MV	-1.500 V	-100.0MV
58	8	-700.0MV	-1.500 V	-100.0MV
58	11	-700.0MV	-1.500 V	-100.0MV
58	13	-710.0MV	-1.500 V	-100.0MV
58	15	-700.0MV	-1.500 V	-100.0MV
58	17	-710.0MV	-1.500 V	-100.0MV
58	19	-710.0MV	-1.500 V	-100.0MV
68	3	510.0MV	100.0MV	1.500 V
68	5	510.0MV	100.0MV	1.500 V
68	7	510.0MV	100.0MV	1.500 V
68	9	510.0MV	100.0MV	1.500 V
68	12	510.0MV	100.0MV	1.500 V
68	14	510.0MV	100.0MV	1.500 V
68	16	510.0MV	100.0MV	1.500 V
68	18	510.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.870 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	106.0MV		260.0MV
409	5	102.0MV		260.0MV
415	7	106.0MV		260.0MV
421	9	106.0MV		260.0MV
427	12	102.0MV		260.0MV
433	14	116.0MV		260.0MV
439	16	108.0MV		260.0MV
445	18	118.0MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

 VOH1 TEST
 VCC= 4.500
 VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.460 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

 VOH2 TEST
 VCC= 4.500
 VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.320 V	3.980 V	

 VOL1 TEST
 VCC= 4.500
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

 VOL2 TEST
 VCC= 4.500
 VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	120.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	122.0MV		260.0MV
421	9	120.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	140.0MV		260.0MV
439	16	130.0MV		260.0MV
445	18	144.0MV		260.0MV

 FUNCTIONAL TEST
 VCC= 6
 VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.820 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.00E-03

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.00MV
344	5	50.00MV		100.00MV
350	7	48.00MV		100.00MV
356	9	48.00MV		100.00MV
362	12	48.00MV		100.00MV
368	14	48.00MV		100.00MV
374	16	50.00MV		100.00MV
380	18	50.00MV		100.00MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.00E-03

INST #	PIN	MEASURED	LT	GT
403	3	136.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	136.0MV		260.0MV
427	12	134.0MV		260.0MV
433	14	156.0MV		260.0MV
439	16	148.0MV		260.0MV
445	18	166.0MV		260.0MV

IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-11.00NA		4.000UA

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 12

DDS-101-12-A PN 54HC244 TEST SEQ 12 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-700.0MV	-1.500 V	-100.0MV
58	2	-700.0MV	-1.500 V	-100.0MV
58	4	-700.0MV	-1.500 V	-100.0MV
58	6	-700.0MV	-1.500 V	-100.0MV
58	8	-700.0MV	-1.500 V	-100.0MV
58	11	-700.0MV	-1.500 V	-100.0MV
58	13	-700.0MV	-1.500 V	-100.0MV
58	15	-700.0MV	-1.500 V	-100.0MV
58	17	-700.0MV	-1.500 V	-100.0MV
58	19	-700.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	510.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	500.0MV	100.0MV	1.500 V
68	12	500.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	510.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

```

-----
FUNCTIONAL TEST
VCC=      2
VIH=    1.500      VIL=    500.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      2
VOH LIMIT 1.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

```

-----
VOL1 TEST
VCC=      2
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```



```

-----
INST #  PIN  MEASURED      LT      GT
210    3    2.980 V      2.900 V
216    5    2.980 V      2.900 V
222    7    2.980 V      2.900 V
228    9    2.970 V      2.900 V
234   12    2.980 V      2.900 V
240   14    2.980 V      2.900 V
246   16    2.980 V      2.900 V
252   18    2.980 V      2.900 V

```

```

-----
          VOH2 TEST
          VCC=      3
          VOH2 LIMIT 2.480
-----

```

```

INST #  PIN  MEASURED      LT      GT
275    3    2.880 V      2.480 V
281    5    2.870 V      2.480 V
287    7    2.870 V      2.480 V
293    9    2.870 V      2.480 V
299   12    2.870 V      2.480 V
305   14    2.860 V      2.480 V
311   16    2.860 V      2.480 V
317   18    2.870 V      2.480 V

```

```

-----
          VOL1 TEST
          VCC=      3
          VOL LIMIT 100.0E-03
-----

```

```

INST #  PIN  MEASURED      LT      GT
338    3    32.00MV      LT      100.0MV
344    5    34.00MV      LT      100.0MV
350    7    32.00MV      LT      100.0MV
356    9    32.00MV      LT      100.0MV
362   12    32.00MV      LT      100.0MV
368   14    34.00MV      LT      100.0MV
374   16    32.00MV      LT      100.0MV
380   18    32.00MV      LT      100.0MV

```

```

-----
          VOL2 TEST
          VCC=      3
          VOL2 LIMIT 260.0E-03
-----

```

```

INST #  PIN  MEASURED      LT      GT
403    3    104.0MV      LT      260.0MV
409    5    102.0MV      LT      260.0MV
415    7    106.0MV      LT      260.0MV
421    9    108.0MV      LT      260.0MV
427   12    106.0MV      LT      260.0MV
433   14    116.0MV      LT      260.0MV
439   16    112.0MV      LT      260.0MV
445   18    116.0MV      LT      260.0MV

```

```

-----
          FUNCTIONAL TEST
          VCC=      4.500
          VIH=      3.150      VIL=      1.350
-----

```

```

-----
          VOH1 TEST
          VCC=      4.500
          VOH LIMIT 4.400
-----

```

```

-----
INST #  PIN  MEASURED      LT          GT
210    3    4.450 V      4.400 V
216    5    4.450 V      4.400 V
222    7    4.450 V      4.400 V
228    9    4.450 V      4.400 V
234   12    4.450 V      4.400 V
240   14    4.450 V      4.400 V
246   16    4.450 V      4.400 V
252   18    4.450 V      4.400 V

```

```

-----
          VOH2 TEST
          VCC=      4.500
          VOH2 LIMIT 3.980
-----

```

```

INST #  PIN  MEASURED      LT          GT
275    3    4.340 V      3.980 V
281    5    4.330 V      3.980 V
287    7    4.330 V      3.980 V
293    9    4.330 V      3.980 V
299   12    4.330 V      3.980 V
305   14    4.310 V      3.980 V
311   16    4.320 V      3.980 V
317   18    4.320 V      3.980 V

```

```

-----
          VOL1 TEST
          VCC=      4.500
          VOL LIMIT 100.0E-03
-----

```

```

INST #  PIN  MEASURED      LT          GT
338    3    38.00MV      100.0MV
344    5    38.00MV      100.0MV
350    7    36.00MV      100.0MV
356    9    36.00MV      100.0MV
362   12    36.00MV      100.0MV
368   14    38.00MV      100.0MV
374   16    38.00MV      100.0MV
380   18    38.00MV      100.0MV

```

```

-----
          VOL2 TEST
          VCC=      4.500
          VOL2 LIMIT 260.0E-03
-----

```

```

INST #  PIN  MEASURED      LT          GT
403    3    120.0MV      260.0MV
409    5    116.0MV      260.0MV
415    7    126.0MV      260.0MV
421    9    124.0MV      260.0MV
427   12    120.0MV      260.0MV
433   14    140.0MV      260.0MV
439   16    132.0MV      260.0MV
445   18    138.0MV      260.0MV

```

```

-----
          FUNCTIONAL TEST
          VCC=      6
          VIH=      4.200      VIL=      1.800
-----

```

```

-----
          VOH1 TEST
          VCC=      6
          VOH LIMIT 5.900
-----

```

```

-----
INST #  PIN  MEASURED      LT      GT
210    3    5.970 V      5.900 V
216    5    5.970 V      5.900 V
222    7    5.970 V      5.900 V
228    9    5.970 V      5.900 V
234   12    5.970 V      5.900 V
240   14    5.970 V      5.900 V
246   16    5.970 V      5.900 V
252   18    5.970 V      5.900 V

```

```

-----
          VOH2 TEST
          VCC=      6
          VOH2 LIMIT 5.480
-----

```

```

INST #  PIN  MEASURED      LT      GT
275    3    5.850 V      5.480 V
281    5    5.840 V      5.480 V
287    7    5.830 V      5.480 V
293    9    5.840 V      5.480 V
299   12    5.840 V      5.480 V
305   14    5.820 V      5.480 V
311   16    5.820 V      5.480 V
317   18    5.840 V      5.480 V

```

```

-----
          VOL1 TEST
          VCC=      6
          VOL LIMIT 100.0E-03
-----

```

```

INST #  PIN  MEASURED      LT      GT
338    3    48.00MV      100.0MV
344    5    48.00MV      100.0MV
350    7    48.00MV      100.0MV
356    9    46.00MV      100.0MV
362   12    48.00MV      100.0MV
368   14    48.00MV      100.0MV
374   16    48.00MV      100.0MV
380   18    48.00MV      100.0MV

```

```

-----
          VOL2 TEST
          VCC=      6
          VOL2 LIMIT 260.0E-03
-----

```

```

INST #  PIN  MEASURED      LT      GT
403    3    134.0MV      260.0MV
409    5    130.0MV      260.0MV
415    7    140.0MV      260.0MV
421    9    138.0MV      260.0MV
427   12    134.0MV      260.0MV
433   14    156.0MV      260.0MV
439   16    148.0MV      260.0MV
445   18    154.0MV      260.0MV

```

```

-----
          IIN TEST
          VCC=      6
          IIL/IIH LIMIT +- 0.1UA @25C/-55C
          IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

```

INST #  PIN  MEASURED      LT      GT
476    1    -3.000NA     -100.0NA  100.0NA
479    1    2.000NA      -100.0NA  100.0NA
484    2    -4.000NA     -100.0NA  100.0NA

```

487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	12.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	10.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	10.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-11.00NA		4.000UA

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at 25°C



STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 1
DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-650.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	460.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	460.0MV	100.0MV	1.500 V
68	9	460.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

FUNCTIONAL TEST

VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	36.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	146.0MV		260.0MV
409	5	144.0MV		260.0MV
415	7	152.0MV		260.0MV
421	9	148.0MV		260.0MV
427	12	146.0MV		260.0MV
433	14	150.0MV		260.0MV
439	16	150.0MV		260.0MV
445	18	152.0MV		260.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.310 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.320 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	72.00MV		100.0MV
344	5	70.00MV		100.0MV
350	7	72.00MV		100.0MV
356	9	72.00MV		100.0MV
362	12	72.00MV		100.0MV
368	14	72.00MV		100.0MV
374	16	70.00MV		100.0MV
380	18	72.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	204.0MV		260.0MV
409	5	202.0MV		260.0MV
415	7	218.0MV		260.0MV
421	9	208.0MV		260.0MV
427	12	208.0MV		260.0MV
433	14	212.0MV		260.0MV
439	16	212.0MV		260.0MV
445	18	216.0MV		260.0MV

FUNCTIONAL TEST

VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.820 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	94.00MV		100.0MV
344	5	94.00MV		100.0MV
350	7	92.00MV		100.0MV
356	9	90.00MV		100.0MV
362	12	90.00MV		100.0MV
368	14	90.00MV		100.0MV
374	16	90.00MV		100.0MV
380	18	92.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	216.0MV		260.0MV
409	5	212.0MV		260.0MV
415	7	224.0MV		260.0MV
421	9	218.0MV		260.0MV
427	12	216.0MV		260.0MV
433	14	224.0MV		260.0MV
439	16	224.0MV		260.0MV
445	18	232.0MV		260.0MV

IIN TEST

VCC= 6
 IIL/IIH LIMIT +- 0.1UA @25C/-55C
 IIL/IIH LIMIT +- 1.0UA @+125C

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	1.000NA	-100.0NA	100.0NA

IOZ TEST
 VCC= 6
 IOZ LIMIT +- 0.5UA @25C/-55C
 IOZ LIMIT +- 10UA @+125C

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

ICC TEST
 VCC= 6
 ICC LIMIT MAX. 4.0UA @25C/-55C
 ICC LIMIT MAX. 160UA @+125C

INST #	PIN	MEASURED	LT	GT
672	20	4.000NA		4.000UA
679	20	-8.000NA		4.000UA

EIR 1.....10 FCT DCT
 000000000 PASS PASS EOT

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 2

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-670.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	120.0MV		260.0MV
409	5	118.0MV		260.0MV
415	7	124.0MV		260.0MV
421	9	126.0MV		260.0MV
427	12	122.0MV		260.0MV
433	14	120.0MV		260.0MV
439	16	122.0MV		260.0MV
445	18	128.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.330 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	56.00MV		100.0MV
356	9	56.00MV		100.0MV
362	12	56.00MV		100.0MV
368	14	56.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	56.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	166.0MV		260.0MV
409	5	162.0MV		260.0MV
415	7	172.0MV		260.0MV
421	9	172.0MV		260.0MV
427	12	166.0MV		260.0MV
433	14	170.0MV		260.0MV
439	16	170.0MV		260.0MV
445	18	176.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.830 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	94.00MV		100.0MV
344	5	92.00MV		100.0MV
350	7	92.00MV		100.0MV
356	9	92.00MV		100.0MV
362	12	90.00MV		100.0MV
368	14	92.00MV		100.0MV
374	16	92.00MV		100.0MV
380	18	92.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	214.0MV		260.0MV
409	5	206.0MV		260.0MV
415	7	220.0MV		260.0MV
421	9	216.0MV		260.0MV
427	12	212.0MV		260.0MV
433	14	214.0MV		260.0MV
439	16	216.0MV		260.0MV
445	18	222.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 3

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-670.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	480.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV


```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	124.0MV		260.0MV
409	5	124.0MV		260.0MV
415	7	130.0MV		260.0MV
421	9	130.0MV		260.0MV
427	12	124.0MV		260.0MV
433	14	128.0MV		260.0MV
439	16	128.0MV		260.0MV
445	18	132.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.310 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	56.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	166.0MV		260.0MV
409	5	164.0MV		260.0MV
415	7	174.0MV		260.0MV
421	9	172.0MV		260.0MV
427	12	168.0MV		260.0MV
433	14	172.0MV		260.0MV
439	16	172.0MV		260.0MV
445	18	178.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.980 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.820 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	88.00MV		100.0MV
344	5	86.00MV		100.0MV
350	7	88.00MV		100.0MV
356	9	84.00MV		100.0MV
362	12	86.00MV		100.0MV
368	14	86.00MV		100.0MV
374	16	86.00MV		100.0MV
380	18	86.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	208.0MV		260.0MV
409	5	204.0MV		260.0MV
415	7	216.0MV		260.0MV
421	9	210.0MV		260.0MV
427	12	206.0MV		260.0MV
433	14	212.0MV		260.0MV
439	16	214.0MV		260.0MV
445	18	220.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 4
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-670.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-670.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-670.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-670.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	480.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	480.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	118.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	122.0MV		260.0MV
421	9	122.0MV		260.0MV
427	12	122.0MV		260.0MV
433	14	122.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	128.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	158.0MV		260.0MV
409	5	154.0MV		260.0MV
415	7	164.0MV		260.0MV
421	9	162.0MV		260.0MV
427	12	158.0MV		260.0MV
433	14	164.0MV		260.0MV
439	16	166.0MV		260.0MV
445	18	170.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	86.00MV		100.0MV
344	5	86.00MV		100.0MV
350	7	86.00MV		100.0MV
356	9	84.00MV		100.0MV
362	12	84.00MV		100.0MV
368	14	84.00MV		100.0MV
374	16	86.00MV		100.0MV
380	18	86.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	202.0MV		260.0MV
409	5	198.0MV		260.0MV
415	7	210.0MV		260.0MV
421	9	206.0MV		260.0MV
427	12	202.0MV		260.0MV
433	14	210.0MV		260.0MV
439	16	212.0MV		260.0MV
445	18	216.0MV		260.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10      FCT      DCT
      0000000000    PASS      PASS      EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 5

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-670.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-670.0MV	-1.500 V	-100.0MV
58	19	-670.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	460.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	116.0MV		260.0MV
409	5	114.0MV		260.0MV
415	7	120.0MV		260.0MV
421	9	120.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	118.0MV		260.0MV
439	16	116.0MV		260.0MV
445	18	122.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.460 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.330 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	154.0MV		260.0MV
409	5	152.0MV		260.0MV
415	7	162.0MV		260.0MV
421	9	160.0MV		260.0MV
427	12	158.0MV		260.0MV
433	14	156.0MV		260.0MV
439	16	156.0MV		260.0MV
445	18	164.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.980 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.840 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	90.00MV		100.0MV
344	5	90.00MV		100.0MV
350	7	88.00MV		100.0MV
356	9	86.00MV		100.0MV
362	12	86.00MV		100.0MV
368	14	86.00MV		100.0MV
374	16	88.00MV		100.0MV
380	18	88.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	200.0MV		260.0MV
409	5	198.0MV		260.0MV
415	7	212.0MV		260.0MV
421	9	208.0MV		260.0MV
427	12	204.0MV		260.0MV
433	14	206.0MV		260.0MV
439	16	206.0MV		260.0MV
445	18	214.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 6

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-670.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-670.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	460.0MV	100.0MV	1.500 V
68	14	460.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	124.0MV		260.0MV
409	5	120.0MV		260.0MV
415	7	124.0MV		260.0MV
421	9	122.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	120.0MV		260.0MV
439	16	122.0MV		260.0MV
445	18	130.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.460 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.320 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.310 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	164.0MV		260.0MV
409	5	158.0MV		260.0MV
415	7	166.0MV		260.0MV
421	9	162.0MV		260.0MV
427	12	158.0MV		260.0MV
433	14	162.0MV		260.0MV
439	16	166.0MV		260.0MV
445	18	172.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.980 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.980 V	5.900 V	
228	9	5.980 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	96.00MV		100.0MV
344	5	94.00MV		100.0MV
350	7	94.00MV		100.0MV
356	9	92.00MV		100.0MV
362	12	92.00MV		100.0MV
368	14	92.00MV		100.0MV
374	16	94.00MV		100.0MV
380	18	94.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	218.0MV		260.0MV
409	5	212.0MV		260.0MV
415	7	222.0MV		260.0MV
421	9	218.0MV		260.0MV
427	12	210.0MV		260.0MV
433	14	216.0MV		260.0MV
439	16	220.0MV		260.0MV
445	18	230.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 7

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.860 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	122.0MV		260.0MV
409	5	120.0MV		260.0MV
415	7	128.0MV		260.0MV
421	9	126.0MV		260.0MV
427	12	128.0MV		260.0MV
433	14	128.0MV		260.0MV
439	16	132.0MV		260.0MV
445	18	134.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.310 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	62.00MV		100.0MV
344	5	60.00MV		100.0MV
350	7	60.00MV		100.0MV
356	9	58.00MV		100.0MV
362	12	60.00MV		100.0MV
368	14	58.00MV		100.0MV
374	16	60.00MV		100.0MV
380	18	60.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	176.0MV		260.0MV
409	5	172.0MV		260.0MV
415	7	182.0MV		260.0MV
421	9	182.0MV		260.0MV
427	12	178.0MV		260.0MV
433	14	184.0MV		260.0MV
439	16	186.0MV		260.0MV
445	18	196.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.820 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	58.00MV		100.0MV
344	5	58.00MV		100.0MV
350	7	58.00MV		100.0MV
356	9	56.00MV		100.0MV
362	12	56.00MV		100.0MV
368	14	56.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	58.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	158.0MV		260.0MV
409	5	154.0MV		260.0MV
415	7	166.0MV		260.0MV
421	9	162.0MV		260.0MV
427	12	158.0MV		260.0MV
433	14	166.0MV		260.0MV
439	16	168.0MV		260.0MV
445	18	176.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	1.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 8

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	450.0MV	100.0MV	1.500 V
68	5	450.0MV	100.0MV	1.500 V
68	7	450.0MV	100.0MV	1.500 V
68	9	450.0MV	100.0MV	1.500 V
68	12	450.0MV	100.0MV	1.500 V
68	14	460.0MV	100.0MV	1.500 V
68	16	460.0MV	100.0MV	1.500 V
68	18	450.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.970 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	106.0MV		260.0MV
409	5	102.0MV		260.0MV
415	7	104.0MV		260.0MV
421	9	108.0MV		260.0MV
427	12	104.0MV		260.0MV
433	14	106.0MV		260.0MV
439	16	112.0MV		260.0MV
445	18	114.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	44.00MV		100.0MV
344	5	44.00MV		100.0MV
350	7	44.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	44.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		260.0MV
409	5	126.0MV		260.0MV
415	7	134.0MV		260.0MV
421	9	134.0MV		260.0MV
427	12	128.0MV		260.0MV
433	14	134.0MV		260.0MV
439	16	138.0MV		260.0MV
445	18	144.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.830 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	64.00MV		100.0MV
344	5	62.00MV		100.0MV
350	7	62.00MV		100.0MV
356	9	58.00MV		100.0MV
362	12	60.00MV		100.0MV
368	14	60.00MV		100.0MV
374	16	60.00MV		100.0MV
380	18	62.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	156.0MV		260.0MV
409	5	152.0MV		260.0MV
415	7	158.0MV		260.0MV
421	9	158.0MV		260.0MV
427	12	152.0MV		260.0MV
433	14	160.0MV		260.0MV
439	16	164.0MV		260.0MV
445	18	170.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	12.00NA		4.000UA
679	20	4.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 9

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	480.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	112.0MV		260.0MV
409	5	110.0MV		260.0MV
415	7	116.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	114.0MV		260.0MV
433	14	118.0MV		260.0MV
439	16	116.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		260.0MV
409	5	134.0MV		260.0MV
415	7	140.0MV		260.0MV
421	9	140.0MV		260.0MV
427	12	136.0MV		260.0MV
433	14	142.0MV		260.0MV
439	16	140.0MV		260.0MV
445	18	150.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.980 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	156.0MV		260.0MV
409	5	152.0MV		260.0MV
415	7	162.0MV		260.0MV
421	9	160.0MV		260.0MV
427	12	156.0MV		260.0MV
433	14	162.0MV		260.0MV
439	16	164.0MV		260.0MV
445	18	170.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	1.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-9.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 10
DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	112.0MV		260.0MV
409	5	108.0MV		260.0MV
415	7	116.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	114.0MV		260.0MV
433	14	116.0MV		260.0MV
439	16	116.0MV		260.0MV
445	18	122.0MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.460 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.310 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.320 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	136.0MV		260.0MV
409	5	132.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	136.0MV		260.0MV
433	14	140.0MV		260.0MV
439	16	140.0MV		260.0MV
445	18	150.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.980 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.830 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	156.0MV		260.0MV
409	5	152.0MV		260.0MV
415	7	164.0MV		260.0MV
421	9	158.0MV		260.0MV
427	12	156.0MV		260.0MV
433	14	162.0MV		260.0MV
439	16	164.0MV		260.0MV
445	18	168.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	1.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-9.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 11

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV


```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.860 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.860 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	116.0MV		260.0MV
409	5	114.0MV		260.0MV
415	7	116.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	116.0MV		260.0MV
433	14	116.0MV		260.0MV
439	16	118.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.320 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.310 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		260.0MV
409	5	136.0MV		260.0MV
415	7	144.0MV		260.0MV
421	9	140.0MV		260.0MV
427	12	136.0MV		260.0MV
433	14	140.0MV		260.0MV
439	16	142.0MV		260.0MV
445	18	148.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.980 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.830 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.820 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.820 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	160.0MV		260.0MV
409	5	156.0MV		260.0MV
415	7	166.0MV		260.0MV
421	9	162.0MV		260.0MV
427	12	156.0MV		260.0MV
433	14	162.0MV		260.0MV
439	16	164.0MV		260.0MV
445	18	170.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 12

DDS-101-12-A PN 54HC244 TEST SEQ 12 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.860 V	2.480 V	
299	12	2.860 V	2.480 V	
305	14	2.860 V	2.480 V	
311	16	2.860 V	2.480 V	
317	18	2.870 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	116.0MV		260.0MV
409	5	114.0MV		260.0MV
415	7	120.0MV		260.0MV
421	9	118.0MV		260.0MV
427	12	116.0MV		260.0MV
433	14	116.0MV		260.0MV
439	16	118.0MV		260.0MV
445	18	122.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.320 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.310 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.310 V	3.980 V	
311	16	4.310 V	3.980 V	
317	18	4.320 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		260.0MV
409	5	136.0MV		260.0MV
415	7	144.0MV		260.0MV
421	9	142.0MV		260.0MV
427	12	138.0MV		260.0MV
433	14	140.0MV		260.0MV
439	16	142.0MV		260.0MV
445	18	146.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.830 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.820 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.820 V	5.480 V	
311	16	5.820 V	5.480 V	
317	18	5.820 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	158.0MV		260.0MV
409	5	156.0MV		260.0MV
415	7	168.0MV		260.0MV
421	9	162.0MV		260.0MV
427	12	158.0MV		260.0MV
433	14	162.0MV		260.0MV
439	16	166.0MV		260.0MV
445	18	170.0MV		260.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	2.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	2.000NA	-100.0NA	100.0NA
492	4	-4.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-4.000NA	-100.0NA	100.0NA
503	6	2.000NA	-100.0NA	100.0NA
508	8	-4.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-4.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-4.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-4.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-4.000NA	-100.0NA	100.0NA
551	19	1.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	2.000NA	-100.0NA	100.0NA
586	5	-4.000NA	-100.0NA	100.0NA
589	5	2.000NA	-100.0NA	100.0NA
594	7	-4.000NA	-100.0NA	100.0NA
597	7	2.000NA	-100.0NA	100.0NA
602	9	-4.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-4.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Pre Burn-In Test Results at +125°C



STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 1
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-620.0MV	-1.500 V	-100.0MV
58	2	-620.0MV	-1.500 V	-100.0MV
58	4	-620.0MV	-1.500 V	-100.0MV
58	6	-620.0MV	-1.500 V	-100.0MV
58	8	-620.0MV	-1.500 V	-100.0MV
58	11	-620.0MV	-1.500 V	-100.0MV
58	13	-620.0MV	-1.500 V	-100.0MV
58	15	-620.0MV	-1.500 V	-100.0MV
58	17	-620.0MV	-1.500 V	-100.0MV
58	19	-620.0MV	-1.500 V	-100.0MV
68	3	430.0MV	100.0MV	1.500 V
68	5	430.0MV	100.0MV	1.500 V
68	7	430.0MV	100.0MV	1.500 V
68	9	430.0MV	100.0MV	1.500 V
68	12	430.0MV	100.0MV	1.500 V
68	14	440.0MV	100.0MV	1.500 V
68	16	440.0MV	100.0MV	1.500 V
68	18	430.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

 FUNCTIONAL TEST

VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.970 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.860 V	2.200 V	
287	7	2.860 V	2.200 V	
293	9	2.860 V	2.200 V	
299	12	2.860 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	36.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		400.0MV
409	5	136.0MV		400.0MV
415	7	138.0MV		400.0MV
421	9	140.0MV		400.0MV
427	12	144.0MV		400.0MV
433	14	144.0MV		400.0MV
439	16	142.0MV		400.0MV
445	18	144.0MV		400.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.310 V	3.700 V	
287	7	4.310 V	3.700 V	
293	9	4.310 V	3.700 V	
299	12	4.300 V	3.700 V	
305	14	4.300 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.310 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	172.0MV		400.0MV
409	5	168.0MV		400.0MV
415	7	170.0MV		400.0MV
421	9	176.0MV		400.0MV
427	12	176.0MV		400.0MV
433	14	180.0MV		400.0MV
439	16	176.0MV		400.0MV
445	18	180.0MV		400.0MV

FUNCTIONAL TEST

VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.820 V	5.200 V	
287	7	5.820 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.810 V	5.200 V	
305	14	5.810 V	5.200 V	
311	16	5.810 V	5.200 V	
317	18	5.820 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	66.00MV		100.0MV
344	5	68.00MV		100.0MV
350	7	66.00MV		100.0MV
356	9	64.00MV		100.0MV
362	12	64.00MV		100.0MV
368	14	64.00MV		100.0MV
374	16	66.00MV		100.0MV
380	18	66.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	188.0MV		400.0MV
409	5	182.0MV		400.0MV
415	7	184.0MV		400.0MV
421	9	190.0MV		400.0MV
427	12	190.0MV		400.0MV
433	14	194.0MV		400.0MV
439	16	190.0MV		400.0MV
445	18	194.0MV		400.0MV

IIN TEST

VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
476     1   -4.000NA    -1.000UA    1.000UA  
479     1    2.000NA    -1.000UA    1.000UA  
484     2   -4.000NA    -1.000UA    1.000UA  
487     2    2.000NA    -1.000UA    1.000UA  
492     4   -4.000NA    -1.000UA    1.000UA  
495     4    2.000NA    -1.000UA    1.000UA  
500     6   -4.000NA    -1.000UA    1.000UA  
503     6    2.000NA    -1.000UA    1.000UA  
508     8   -4.000NA    -1.000UA    1.000UA  
511     8    2.000NA    -1.000UA    1.000UA  
516    11   -4.000NA    -1.000UA    1.000UA  
519    11    2.000NA    -1.000UA    1.000UA  
524    13   -4.000NA    -1.000UA    1.000UA  
527    13    2.000NA    -1.000UA    1.000UA  
532    15   -4.000NA    -1.000UA    1.000UA  
535    15    2.000NA    -1.000UA    1.000UA  
540    17   -4.000NA    -1.000UA    1.000UA  
543    17    2.000NA    -1.000UA    1.000UA  
548    19   -4.000NA    -1.000UA    1.000UA  
551    19    1.000NA    -1.000UA    1.000UA
```

```
-----  
IOZ TEST  
VCC= 6  
IOZ LIMIT +- 0.5UA @25C/-55C  
IOZ LIMIT +- 10UA @+125C  
-----
```

```
INST #  PIN  MEASURED      LT          GT  
578     3   -6.000NA    -1.000UA    1.000UA  
581     3    2.000NA    -1.000UA    1.000UA  
586     5   -8.000NA    -1.000UA    1.000UA  
589     5    2.000NA    -1.000UA    1.000UA  
594     7   -8.000NA    -1.000UA    1.000UA  
597     7    3.000NA    -1.000UA    1.000UA  
602     9   -8.000NA    -1.000UA    1.000UA  
605     9    2.000NA    -1.000UA    1.000UA  
613    12   -7.000NA    -1.000UA    1.000UA  
616    12    2.000NA    -1.000UA    1.000UA  
621    14   -7.000NA    -1.000UA    1.000UA  
624    14    2.000NA    -1.000UA    1.000UA  
629    16   -7.000NA    -1.000UA    1.000UA  
632    16    2.000NA    -1.000UA    1.000UA  
637    18   -7.000NA    -1.000UA    1.000UA  
640    18    2.000NA    -1.000UA    1.000UA
```

```
-----  
ICC TEST  
VCC= 6  
ICC LIMIT MAX. 4.0UA @25C/-55C  
ICC LIMIT MAX. 160UA @+125C  
-----
```

```
INST #  PIN  MEASURED      LT          GT  
672    20  -10.00UA      160.0UA  
679    20  -10.00UA      160.0UA
```

```
EIR 1.....10    FCT    DCT  
0000000000    PASS    PASS    EOT
```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 2
DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-600.0MV	-1.500 V	-100.0MV
58	2	-600.0MV	-1.500 V	-100.0MV
58	4	-600.0MV	-1.500 V	-100.0MV
58	6	-600.0MV	-1.500 V	-100.0MV
58	8	-600.0MV	-1.500 V	-100.0MV
58	11	-600.0MV	-1.500 V	-100.0MV
58	13	-600.0MV	-1.500 V	-100.0MV
58	15	-600.0MV	-1.500 V	-100.0MV
58	17	-600.0MV	-1.500 V	-100.0MV
58	19	-600.0MV	-1.500 V	-100.0MV
68	3	410.0MV	100.0MV	1.500 V
68	5	410.0MV	100.0MV	1.500 V
68	7	410.0MV	100.0MV	1.500 V
68	9	410.0MV	100.0MV	1.500 V
68	12	410.0MV	100.0MV	1.500 V
68	14	410.0MV	100.0MV	1.500 V
68	16	410.0MV	100.0MV	1.500 V
68	18	400.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV


```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.970 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.200 V	
281	5	2.860 V	2.200 V	
287	7	2.860 V	2.200 V	
293	9	2.860 V	2.200 V	
299	12	2.860 V	2.200 V	
305	14	2.860 V	2.200 V	
311	16	2.860 V	2.200 V	
317	18	2.870 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	120.0MV		400.0MV
409	5	116.0MV		400.0MV
415	7	116.0MV		400.0MV
421	9	124.0MV		400.0MV
427	12	122.0MV		400.0MV
433	14	120.0MV		400.0MV
439	16	118.0MV		400.0MV
445	18	120.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.320 V	3.700 V	
281	5	4.310 V	3.700 V	
287	7	4.310 V	3.700 V	
293	9	4.310 V	3.700 V	
299	12	4.310 V	3.700 V	
305	14	4.300 V	3.700 V	
311	16	4.310 V	3.700 V	
317	18	4.320 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	144.0MV		400.0MV
409	5	140.0MV		400.0MV
415	7	142.0MV		400.0MV
421	9	150.0MV		400.0MV
427	12	146.0MV		400.0MV
433	14	146.0MV		400.0MV
439	16	142.0MV		400.0MV
445	18	146.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.820 V	5.200 V	
287	7	5.820 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.810 V	5.200 V	
305	14	5.810 V	5.200 V	
311	16	5.820 V	5.200 V	
317	18	5.830 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	164.0MV		400.0MV
409	5	160.0MV		400.0MV
415	7	160.0MV		400.0MV
421	9	168.0MV		400.0MV
427	12	164.0MV		400.0MV
433	14	166.0MV		400.0MV
439	16	162.0MV		400.0MV
445	18	166.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	2.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-20.00NA	-1.000UA	1.000UA
581	3	5.000NA	-1.000UA	1.000UA
586	5	-21.00NA	-1.000UA	1.000UA
589	5	5.000NA	-1.000UA	1.000UA
594	7	-20.00NA	-1.000UA	1.000UA
597	7	5.000NA	-1.000UA	1.000UA
602	9	-21.00NA	-1.000UA	1.000UA
605	9	5.000NA	-1.000UA	1.000UA
613	12	-24.00NA	-1.000UA	1.000UA
616	12	5.000NA	-1.000UA	1.000UA
621	14	-22.00NA	-1.000UA	1.000UA
624	14	5.000NA	-1.000UA	1.000UA
629	16	-24.00NA	-1.000UA	1.000UA
632	16	5.000NA	-1.000UA	1.000UA
637	18	-25.00NA	-1.000UA	1.000UA
640	18	4.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 3
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-620.0MV	-1.500 V	-100.0MV
58	2	-610.0MV	-1.500 V	-100.0MV
58	4	-620.0MV	-1.500 V	-100.0MV
58	6	-610.0MV	-1.500 V	-100.0MV
58	8	-610.0MV	-1.500 V	-100.0MV
58	11	-610.0MV	-1.500 V	-100.0MV
58	13	-610.0MV	-1.500 V	-100.0MV
58	15	-610.0MV	-1.500 V	-100.0MV
58	17	-610.0MV	-1.500 V	-100.0MV
58	19	-610.0MV	-1.500 V	-100.0MV
68	3	430.0MV	100.0MV	1.500 V
68	5	430.0MV	100.0MV	1.500 V
68	7	430.0MV	100.0MV	1.500 V
68	9	420.0MV	100.0MV	1.500 V
68	12	420.0MV	100.0MV	1.500 V
68	14	430.0MV	100.0MV	1.500 V
68	16	420.0MV	100.0MV	1.500 V
68	18	420.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.860 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.850 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	122.0MV		400.0MV
409	5	120.0MV		400.0MV
415	7	122.0MV		400.0MV
421	9	128.0MV		400.0MV
427	12	124.0MV		400.0MV
433	14	124.0MV		400.0MV
439	16	120.0MV		400.0MV
445	18	122.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.460 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.300 V	3.700 V	
293	9	4.300 V	3.700 V	
299	12	4.300 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.310 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	146.0MV		400.0MV
409	5	144.0MV		400.0MV
415	7	146.0MV		400.0MV
421	9	154.0MV		400.0MV
427	12	148.0MV		400.0MV
433	14	150.0MV		400.0MV
439	16	146.0MV		400.0MV
445	18	148.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.800 V	5.200 V	
305	14	5.800 V	5.200 V	
311	16	5.810 V	5.200 V	
317	18	5.820 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	48.00MV		100.0MV
380	18	48.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	166.0MV		400.0MV
409	5	162.0MV		400.0MV
415	7	164.0MV		400.0MV
421	9	170.0MV		400.0MV
427	12	166.0MV		400.0MV
433	14	170.0MV		400.0MV
439	16	164.0MV		400.0MV
445	18	166.0MV		400.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	2.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	1.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-8.000NA	-1.000UA	1.000UA
581	3	3.000NA	-1.000UA	1.000UA
586	5	-9.000NA	-1.000UA	1.000UA
589	5	3.000NA	-1.000UA	1.000UA
594	7	-10.00NA	-1.000UA	1.000UA
597	7	4.000NA	-1.000UA	1.000UA
602	9	-11.00NA	-1.000UA	1.000UA
605	9	3.000NA	-1.000UA	1.000UA
613	12	-10.00NA	-1.000UA	1.000UA
616	12	3.000NA	-1.000UA	1.000UA
621	14	-10.00NA	-1.000UA	1.000UA
624	14	3.000NA	-1.000UA	1.000UA
629	16	-10.00NA	-1.000UA	1.000UA
632	16	3.000NA	-1.000UA	1.000UA
637	18	-11.00NA	-1.000UA	1.000UA
640	18	3.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 4
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-600.0MV	-1.500 V	-100.0MV
58	2	-600.0MV	-1.500 V	-100.0MV
58	4	-600.0MV	-1.500 V	-100.0MV
58	6	-600.0MV	-1.500 V	-100.0MV
58	8	-600.0MV	-1.500 V	-100.0MV
58	11	-600.0MV	-1.500 V	-100.0MV
58	13	-600.0MV	-1.500 V	-100.0MV
58	15	-600.0MV	-1.500 V	-100.0MV
58	17	-600.0MV	-1.500 V	-100.0MV
58	19	-600.0MV	-1.500 V	-100.0MV
68	3	410.0MV	100.0MV	1.500 V
68	5	420.0MV	100.0MV	1.500 V
68	7	410.0MV	100.0MV	1.500 V
68	9	410.0MV	100.0MV	1.500 V
68	12	420.0MV	100.0MV	1.500 V
68	14	420.0MV	100.0MV	1.500 V
68	16	420.0MV	100.0MV	1.500 V
68	18	410.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.860 V	2.200 V	
287	7	2.860 V	2.200 V	
293	9	2.860 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	120.0MV		400.0MV
409	5	118.0MV		400.0MV
415	7	118.0MV		400.0MV
421	9	124.0MV		400.0MV
427	12	124.0MV		400.0MV
433	14	124.0MV		400.0MV
439	16	124.0MV		400.0MV
445	18	124.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.310 V	3.700 V	
287	7	4.300 V	3.700 V	
293	9	4.300 V	3.700 V	
299	12	4.300 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.310 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	144.0MV		400.0MV
409	5	140.0MV		400.0MV
415	7	144.0MV		400.0MV
421	9	150.0MV		400.0MV
427	12	148.0MV		400.0MV
433	14	150.0MV		400.0MV
439	16	146.0MV		400.0MV
445	18	148.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.810 V	5.200 V	
305	14	5.800 V	5.200 V	
311	16	5.800 V	5.200 V	
317	18	5.820 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	48.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	164.0MV		400.0MV
409	5	158.0MV		400.0MV
415	7	158.0MV		400.0MV
421	9	168.0MV		400.0MV
427	12	166.0MV		400.0MV
433	14	170.0MV		400.0MV
439	16	164.0MV		400.0MV
445	18	166.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	2.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	1.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-13.00NA	-1.000UA	1.000UA
581	3	4.000NA	-1.000UA	1.000UA
586	5	-12.00NA	-1.000UA	1.000UA
589	5	4.000NA	-1.000UA	1.000UA
594	7	-14.00NA	-1.000UA	1.000UA
597	7	4.000NA	-1.000UA	1.000UA
602	9	-14.00NA	-1.000UA	1.000UA
605	9	4.000NA	-1.000UA	1.000UA
613	12	-12.00NA	-1.000UA	1.000UA
616	12	4.000NA	-1.000UA	1.000UA
621	14	-12.00NA	-1.000UA	1.000UA
624	14	4.000NA	-1.000UA	1.000UA
629	16	-12.00NA	-1.000UA	1.000UA
632	16	3.000NA	-1.000UA	1.000UA
637	18	-13.00NA	-1.000UA	1.000UA
640	18	3.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 5
DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-620.0MV	-1.500 V	-100.0MV
58	2	-610.0MV	-1.500 V	-100.0MV
58	4	-610.0MV	-1.500 V	-100.0MV
58	6	-610.0MV	-1.500 V	-100.0MV
58	8	-610.0MV	-1.500 V	-100.0MV
58	11	-610.0MV	-1.500 V	-100.0MV
58	13	-610.0MV	-1.500 V	-100.0MV
58	15	-610.0MV	-1.500 V	-100.0MV
58	17	-610.0MV	-1.500 V	-100.0MV
58	19	-610.0MV	-1.500 V	-100.0MV
68	3	420.0MV	100.0MV	1.500 V
68	5	420.0MV	100.0MV	1.500 V
68	7	430.0MV	100.0MV	1.500 V
68	9	420.0MV	100.0MV	1.500 V
68	12	420.0MV	100.0MV	1.500 V
68	14	420.0MV	100.0MV	1.500 V
68	16	420.0MV	100.0MV	1.500 V
68	18	410.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.860 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.860 V	2.200 V	
299	12	2.860 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.860 V	2.200 V	
317	18	2.870 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	114.0MV		400.0MV
409	5	112.0MV		400.0MV
415	7	114.0MV		400.0MV
421	9	120.0MV		400.0MV
427	12	120.0MV		400.0MV
433	14	114.0MV		400.0MV
439	16	110.0MV		400.0MV
445	18	118.0MV		400.0MV


```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.310 V	3.700 V	
287	7	4.310 V	3.700 V	
293	9	4.310 V	3.700 V	
299	12	4.310 V	3.700 V	
305	14	4.300 V	3.700 V	
311	16	4.310 V	3.700 V	
317	18	4.320 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	136.0MV		400.0MV
409	5	134.0MV		400.0MV
415	7	136.0MV		400.0MV
421	9	144.0MV		400.0MV
427	12	142.0MV		400.0MV
433	14	140.0MV		400.0MV
439	16	134.0MV		400.0MV
445	18	140.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.820 V	5.200 V	
299	12	5.810 V	5.200 V	
305	14	5.810 V	5.200 V	
311	16	5.810 V	5.200 V	
317	18	5.830 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	48.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	156.0MV		400.0MV
409	5	152.0MV		400.0MV
415	7	154.0MV		400.0MV
421	9	162.0MV		400.0MV
427	12	162.0MV		400.0MV
433	14	160.0MV		400.0MV
439	16	152.0MV		400.0MV
445	18	160.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	2.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-12.00NA	-1.000UA	1.000UA
581	3	4.000NA	-1.000UA	1.000UA
586	5	-11.00NA	-1.000UA	1.000UA
589	5	4.000NA	-1.000UA	1.000UA
594	7	-11.00NA	-1.000UA	1.000UA
597	7	4.000NA	-1.000UA	1.000UA
602	9	-14.00NA	-1.000UA	1.000UA
605	9	3.000NA	-1.000UA	1.000UA
613	12	-13.00NA	-1.000UA	1.000UA
616	12	3.000NA	-1.000UA	1.000UA
621	14	-12.00NA	-1.000UA	1.000UA
624	14	3.000NA	-1.000UA	1.000UA
629	16	-12.00NA	-1.000UA	1.000UA
632	16	3.000NA	-1.000UA	1.000UA
637	18	-20.00NA	-1.000UA	1.000UA
640	18	3.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 6
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-600.0MV	-1.500 V	-100.0MV
58	2	-600.0MV	-1.500 V	-100.0MV
58	4	-600.0MV	-1.500 V	-100.0MV
58	6	-600.0MV	-1.500 V	-100.0MV
58	8	-600.0MV	-1.500 V	-100.0MV
58	11	-600.0MV	-1.500 V	-100.0MV
58	13	-600.0MV	-1.500 V	-100.0MV
58	15	-600.0MV	-1.500 V	-100.0MV
58	17	-590.0MV	-1.500 V	-100.0MV
58	19	-600.0MV	-1.500 V	-100.0MV
68	3	400.0MV	100.0MV	1.500 V
68	5	400.0MV	100.0MV	1.500 V
68	7	400.0MV	100.0MV	1.500 V
68	9	390.0MV	100.0MV	1.500 V
68	12	390.0MV	100.0MV	1.500 V
68	14	390.0MV	100.0MV	1.500 V
68	16	390.0MV	100.0MV	1.500 V
68	18	390.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.860 V	2.200 V	
299	12	2.860 V	2.200 V	
305	14	2.860 V	2.200 V	
311	16	2.860 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	128.0MV		400.0MV
409	5	122.0MV		400.0MV
415	7	120.0MV		400.0MV
421	9	126.0MV		400.0MV
427	12	122.0MV		400.0MV
433	14	122.0MV		400.0MV
439	16	124.0MV		400.0MV
445	18	128.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.300 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.300 V	3.700 V	
293	9	4.300 V	3.700 V	
299	12	4.300 V	3.700 V	
305	14	4.300 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	154.0MV		400.0MV
409	5	148.0MV		400.0MV
415	7	146.0MV		400.0MV
421	9	152.0MV		400.0MV
427	12	146.0MV		400.0MV
433	14	148.0MV		400.0MV
439	16	150.0MV		400.0MV
445	18	156.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.980 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.810 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.800 V	5.200 V	
299	12	5.810 V	5.200 V	
305	14	5.800 V	5.200 V	
311	16	5.810 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	174.0MV		400.0MV
409	5	168.0MV		400.0MV
415	7	164.0MV		400.0MV
421	9	174.0MV		400.0MV
427	12	168.0MV		400.0MV
433	14	170.0MV		400.0MV
439	16	168.0MV		400.0MV
445	18	176.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	2.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	1.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-12.00NA	-1.000UA	1.000UA
581	3	4.000NA	-1.000UA	1.000UA
586	5	-16.00NA	-1.000UA	1.000UA
589	5	5.000NA	-1.000UA	1.000UA
594	7	-18.00NA	-1.000UA	1.000UA
597	7	5.000NA	-1.000UA	1.000UA
602	9	-22.00NA	-1.000UA	1.000UA
605	9	5.000NA	-1.000UA	1.000UA
613	12	-23.00NA	-1.000UA	1.000UA
616	12	5.000NA	-1.000UA	1.000UA
621	14	-22.00NA	-1.000UA	1.000UA
624	14	5.000NA	-1.000UA	1.000UA
629	16	-20.00NA	-1.000UA	1.000UA
632	16	5.000NA	-1.000UA	1.000UA
637	18	-16.00NA	-1.000UA	1.000UA
640	18	4.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 7
DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-590.0MV	-1.500 V	-100.0MV
58	2	-590.0MV	-1.500 V	-100.0MV
58	4	-580.0MV	-1.500 V	-100.0MV
58	6	-580.0MV	-1.500 V	-100.0MV
58	8	-580.0MV	-1.500 V	-100.0MV
58	11	-580.0MV	-1.500 V	-100.0MV
58	13	-580.0MV	-1.500 V	-100.0MV
58	15	-580.0MV	-1.500 V	-100.0MV
58	17	-580.0MV	-1.500 V	-100.0MV
58	19	-580.0MV	-1.500 V	-100.0MV
68	3	390.0MV	100.0MV	1.500 V
68	5	400.0MV	100.0MV	1.500 V
68	7	390.0MV	100.0MV	1.500 V
68	9	390.0MV	100.0MV	1.500 V
68	12	390.0MV	100.0MV	1.500 V
68	14	390.0MV	100.0MV	1.500 V
68	16	390.0MV	100.0MV	1.500 V
68	18	390.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.970 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.850 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.850 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	126.0MV		400.0MV
409	5	124.0MV		400.0MV
415	7	122.0MV		400.0MV
421	9	130.0MV		400.0MV
427	12	130.0MV		400.0MV
433	14	130.0MV		400.0MV
439	16	128.0MV		400.0MV
445	18	132.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.300 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.300 V	3.700 V	
293	9	4.290 V	3.700 V	
299	12	4.290 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		400.0MV
409	5	150.0MV		400.0MV
415	7	150.0MV		400.0MV
421	9	156.0MV		400.0MV
427	12	158.0MV		400.0MV
433	14	158.0MV		400.0MV
439	16	156.0MV		400.0MV
445	18	160.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.980 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.810 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.800 V	5.200 V	
299	12	5.800 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.800 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	176.0MV		400.0MV
409	5	170.0MV		400.0MV
415	7	170.0MV		400.0MV
421	9	178.0MV		400.0MV
427	12	178.0MV		400.0MV
433	14	180.0MV		400.0MV
439	16	176.0MV		400.0MV
445	18	182.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	2.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-34.00NA	-1.000UA	1.000UA
581	3	10.00NA	-1.000UA	1.000UA
586	5	-36.00NA	-1.000UA	1.000UA
589	5	10.00NA	-1.000UA	1.000UA
594	7	-40.00NA	-1.000UA	1.000UA
597	7	10.00NA	-1.000UA	1.000UA
602	9	-47.00NA	-1.000UA	1.000UA
605	9	10.00NA	-1.000UA	1.000UA
613	12	-35.00NA	-1.000UA	1.000UA
616	12	9.000NA	-1.000UA	1.000UA
621	14	-36.00NA	-1.000UA	1.000UA
624	14	9.000NA	-1.000UA	1.000UA
629	16	-34.00NA	-1.000UA	1.000UA
632	16	9.000NA	-1.000UA	1.000UA
637	18	-34.00NA	-1.000UA	1.000UA
640	18	8.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 8
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-570.0MV	-1.500 V	-100.0MV
58	2	-570.0MV	-1.500 V	-100.0MV
58	4	-570.0MV	-1.500 V	-100.0MV
58	6	-570.0MV	-1.500 V	-100.0MV
58	8	-570.0MV	-1.500 V	-100.0MV
58	11	-560.0MV	-1.500 V	-100.0MV
58	13	-560.0MV	-1.500 V	-100.0MV
58	15	-570.0MV	-1.500 V	-100.0MV
58	17	-560.0MV	-1.500 V	-100.0MV
58	19	-570.0MV	-1.500 V	-100.0MV
68	3	340.0MV	100.0MV	1.500 V
68	5	340.0MV	100.0MV	1.500 V
68	7	340.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	330.0MV	100.0MV	1.500 V
68	14	340.0MV	100.0MV	1.500 V
68	16	340.0MV	100.0MV	1.500 V
68	18	340.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.860 V	2.200 V	
287	7	2.860 V	2.200 V	
293	9	2.860 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.860 V	2.200 V	
311	16	2.860 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	122.0MV		400.0MV
409	5	118.0MV		400.0MV
415	7	114.0MV		400.0MV
421	9	124.0MV		400.0MV
427	12	120.0MV		400.0MV
433	14	122.0MV		400.0MV
439	16	124.0MV		400.0MV
445	18	124.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.310 V	3.700 V	
293	9	4.310 V	3.700 V	
299	12	4.300 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.310 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	44.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	150.0MV		400.0MV
409	5	144.0MV		400.0MV
415	7	140.0MV		400.0MV
421	9	154.0MV		400.0MV
427	12	150.0MV		400.0MV
433	14	150.0MV		400.0MV
439	16	152.0MV		400.0MV
445	18	154.0MV		400.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.810 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.800 V	5.200 V	
305	14	5.800 V	5.200 V	
311	16	5.800 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	58.00MV		100.0MV
344	5	58.00MV		100.0MV
350	7	56.00MV		100.0MV
356	9	56.00MV		100.0MV
362	12	56.00MV		100.0MV
368	14	56.00MV		100.0MV
374	16	58.00MV		100.0MV
380	18	58.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	176.0MV		400.0MV
409	5	170.0MV		400.0MV
415	7	166.0MV		400.0MV
421	9	176.0MV		400.0MV
427	12	174.0MV		400.0MV
433	14	176.0MV		400.0MV
439	16	176.0MV		400.0MV
445	18	180.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	3.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	1.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-66.00NA	-1.000UA	1.000UA
581	3	14.00NA	-1.000UA	1.000UA
586	5	-82.00NA	-1.000UA	1.000UA
589	5	15.00NA	-1.000UA	1.000UA
594	7	-99.00NA	-1.000UA	1.000UA
597	7	19.00NA	-1.000UA	1.000UA
602	9	-139.0NA	-1.000UA	1.000UA
605	9	16.00NA	-1.000UA	1.000UA
613	12	-96.00NA	-1.000UA	1.000UA
616	12	15.00NA	-1.000UA	1.000UA
621	14	-88.00NA	-1.000UA	1.000UA
624	14	14.00NA	-1.000UA	1.000UA
629	16	-77.00NA	-1.000UA	1.000UA
632	16	13.00NA	-1.000UA	1.000UA
637	18	-72.00NA	-1.000UA	1.000UA
640	18	12.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 9
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-600.0MV	-1.500 V	-100.0MV
58	2	-590.0MV	-1.500 V	-100.0MV
58	4	-590.0MV	-1.500 V	-100.0MV
58	6	-590.0MV	-1.500 V	-100.0MV
58	8	-590.0MV	-1.500 V	-100.0MV
58	11	-590.0MV	-1.500 V	-100.0MV
58	13	-590.0MV	-1.500 V	-100.0MV
58	15	-590.0MV	-1.500 V	-100.0MV
58	17	-590.0MV	-1.500 V	-100.0MV
58	19	-590.0MV	-1.500 V	-100.0MV
68	3	410.0MV	100.0MV	1.500 V
68	5	410.0MV	100.0MV	1.500 V
68	7	410.0MV	100.0MV	1.500 V
68	9	410.0MV	100.0MV	1.500 V
68	12	410.0MV	100.0MV	1.500 V
68	14	410.0MV	100.0MV	1.500 V
68	16	410.0MV	100.0MV	1.500 V
68	18	410.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.860 V	2.200 V	
293	9	2.850 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	126.0MV		400.0MV
409	5	124.0MV		400.0MV
415	7	122.0MV		400.0MV
421	9	128.0MV		400.0MV
427	12	130.0MV		400.0MV
433	14	130.0MV		400.0MV
439	16	128.0MV		400.0MV
445	18	128.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.300 V	3.700 V	
293	9	4.300 V	3.700 V	
299	12	4.290 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.310 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	38.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	150.0MV		400.0MV
409	5	146.0MV		400.0MV
415	7	148.0MV		400.0MV
421	9	154.0MV		400.0MV
427	12	154.0MV		400.0MV
433	14	156.0MV		400.0MV
439	16	152.0MV		400.0MV
445	18	154.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.800 V	5.200 V	
305	14	5.800 V	5.200 V	
311	16	5.800 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	48.00MV		100.0MV
380	18	48.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	170.0MV		400.0MV
409	5	164.0MV		400.0MV
415	7	164.0MV		400.0MV
421	9	172.0MV		400.0MV
427	12	172.0MV		400.0MV
433	14	176.0MV		400.0MV
439	16	170.0MV		400.0MV
445	18	172.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	3.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	1.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-14.00NA	-1.000UA	1.000UA
581	3	6.000NA	-1.000UA	1.000UA
586	5	-14.00NA	-1.000UA	1.000UA
589	5	5.000NA	-1.000UA	1.000UA
594	7	-15.00NA	-1.000UA	1.000UA
597	7	5.000NA	-1.000UA	1.000UA
602	9	-16.00NA	-1.000UA	1.000UA
605	9	4.000NA	-1.000UA	1.000UA
613	12	-13.00NA	-1.000UA	1.000UA
616	12	4.000NA	-1.000UA	1.000UA
621	14	-14.00NA	-1.000UA	1.000UA
624	14	4.000NA	-1.000UA	1.000UA
629	16	-14.00NA	-1.000UA	1.000UA
632	16	4.000NA	-1.000UA	1.000UA
637	18	-14.00NA	-1.000UA	1.000UA
640	18	4.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 05/29/11 07:07
TEST PROGRAM HC244 S/N 10
DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-580.0MV	-1.500 V	-100.0MV
58	2	-570.0MV	-1.500 V	-100.0MV
58	4	-570.0MV	-1.500 V	-100.0MV
58	6	-570.0MV	-1.500 V	-100.0MV
58	8	-570.0MV	-1.500 V	-100.0MV
58	11	-570.0MV	-1.500 V	-100.0MV
58	13	-570.0MV	-1.500 V	-100.0MV
58	15	-570.0MV	-1.500 V	-100.0MV
58	17	-570.0MV	-1.500 V	-100.0MV
58	19	-570.0MV	-1.500 V	-100.0MV
68	3	380.0MV	100.0MV	1.500 V
68	5	390.0MV	100.0MV	1.500 V
68	7	390.0MV	100.0MV	1.500 V
68	9	390.0MV	100.0MV	1.500 V
68	12	380.0MV	100.0MV	1.500 V
68	14	390.0MV	100.0MV	1.500 V
68	16	390.0MV	100.0MV	1.500 V
68	18	380.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.850 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.850 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	130.0MV		400.0MV
409	5	128.0MV		400.0MV
415	7	128.0MV		400.0MV
421	9	134.0MV		400.0MV
427	12	136.0MV		400.0MV
433	14	134.0MV		400.0MV
439	16	132.0MV		400.0MV
445	18	134.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.300 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.300 V	3.700 V	
293	9	4.290 V	3.700 V	
299	12	4.290 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	158.0MV		400.0MV
409	5	152.0MV		400.0MV
415	7	154.0MV		400.0MV
421	9	162.0MV		400.0MV
427	12	160.0MV		400.0MV
433	14	162.0MV		400.0MV
439	16	158.0MV		400.0MV
445	18	162.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.810 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.800 V	5.200 V	
293	9	5.800 V	5.200 V	
299	12	5.790 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	180.0MV		400.0MV
409	5	174.0MV		400.0MV
415	7	174.0MV		400.0MV
421	9	182.0MV		400.0MV
427	12	182.0MV		400.0MV
433	14	182.0MV		400.0MV
439	16	178.0MV		400.0MV
445	18	180.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	2.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	3.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	1.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-35.00NA	-1.000UA	1.000UA
581	3	11.00NA	-1.000UA	1.000UA
586	5	-36.00NA	-1.000UA	1.000UA
589	5	10.00NA	-1.000UA	1.000UA
594	7	-39.00NA	-1.000UA	1.000UA
597	7	10.00NA	-1.000UA	1.000UA
602	9	-40.00NA	-1.000UA	1.000UA
605	9	10.00NA	-1.000UA	1.000UA
613	12	-35.00NA	-1.000UA	1.000UA
616	12	10.00NA	-1.000UA	1.000UA
621	14	-33.00NA	-1.000UA	1.000UA
624	14	9.000NA	-1.000UA	1.000UA
629	16	-35.00NA	-1.000UA	1.000UA
632	16	9.000NA	-1.000UA	1.000UA
637	18	-42.00NA	-1.000UA	1.000UA
640	18	10.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

```

SN
      F.P.      OCTAL      LITERAL
SN      11      21130000      1+

```


STAT1

05/29/11 07:07

TEST PROGRAM HC244 S/N 11

DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-620.0MV	-1.500 V	-100.0MV
58	2	-620.0MV	-1.500 V	-100.0MV
58	4	-630.0MV	-1.500 V	-100.0MV
58	6	-620.0MV	-1.500 V	-100.0MV
58	8	-620.0MV	-1.500 V	-100.0MV
58	11	-620.0MV	-1.500 V	-100.0MV
58	13	-620.0MV	-1.500 V	-100.0MV
58	15	-620.0MV	-1.500 V	-100.0MV
58	17	-620.0MV	-1.500 V	-100.0MV
58	19	-620.0MV	-1.500 V	-100.0MV
68	3	430.0MV	100.0MV	1.500 V
68	5	430.0MV	100.0MV	1.500 V
68	7	430.0MV	100.0MV	1.500 V
68	9	430.0MV	100.0MV	1.500 V
68	12	430.0MV	100.0MV	1.500 V
68	14	430.0MV	100.0MV	1.500 V
68	16	430.0MV	100.0MV	1.500 V
68	18	430.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.860 V	2.200 V	
293	9	2.850 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	122.0MV		400.0MV
409	5	120.0MV		400.0MV
415	7	118.0MV		400.0MV
421	9	124.0MV		400.0MV
427	12	120.0MV		400.0MV
433	14	120.0MV		400.0MV
439	16	120.0MV		400.0MV
445	18	122.0MV		400.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.310 V	3.700 V	
293	9	4.310 V	3.700 V	
299	12	4.300 V	3.700 V	
305	14	4.300 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.310 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	40.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	144.0MV		400.0MV
409	5	142.0MV		400.0MV
415	7	142.0MV		400.0MV
421	9	148.0MV		400.0MV
427	12	144.0MV		400.0MV
433	14	146.0MV		400.0MV
439	16	144.0MV		400.0MV
445	18	146.0MV		400.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.810 V	5.200 V	
305	14	5.810 V	5.200 V	
311	16	5.810 V	5.200 V	
317	18	5.820 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	168.0MV		400.0MV
409	5	164.0MV		400.0MV
415	7	162.0MV		400.0MV
421	9	170.0MV		400.0MV
427	12	166.0MV		400.0MV
433	14	170.0MV		400.0MV
439	16	166.0MV		400.0MV
445	18	170.0MV		400.0MV

IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C

```
-----
```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	3.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	3.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```
-----
```

IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C

```
-----
```

INST #	PIN	MEASURED	LT	GT
578	3	-5.000NA	-1.000UA	1.000UA
581	3	4.000NA	-1.000UA	1.000UA
586	5	-5.000NA	-1.000UA	1.000UA
589	5	3.000NA	-1.000UA	1.000UA
594	7	-6.000NA	-1.000UA	1.000UA
597	7	2.000NA	-1.000UA	1.000UA
602	9	-6.000NA	-1.000UA	1.000UA
605	9	2.000NA	-1.000UA	1.000UA
613	12	-5.000NA	-1.000UA	1.000UA
616	12	2.000NA	-1.000UA	1.000UA
621	14	-6.000NA	-1.000UA	1.000UA
624	14	2.000NA	-1.000UA	1.000UA
629	16	-6.000NA	-1.000UA	1.000UA
632	16	2.000NA	-1.000UA	1.000UA
637	18	-6.000NA	-1.000UA	1.000UA
640	18	2.000NA	-1.000UA	1.000UA

```
-----
```

ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C

```
-----
```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

EIR 1.....10 FCT DCT
0000000000 PASS PASS EOT

STAT1 05/29/11 07:07
 TEST PROGRAM HC244 S/N 12
 DDS-101-12-A PN 54HC244 TEST SEQ 12 +125C

 CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-630.0MV	-1.500 V	-100.0MV
58	2	-630.0MV	-1.500 V	-100.0MV
58	4	-620.0MV	-1.500 V	-100.0MV
58	6	-620.0MV	-1.500 V	-100.0MV
58	8	-620.0MV	-1.500 V	-100.0MV
58	11	-620.0MV	-1.500 V	-100.0MV
58	13	-630.0MV	-1.500 V	-100.0MV
58	15	-620.0MV	-1.500 V	-100.0MV
58	17	-620.0MV	-1.500 V	-100.0MV
58	19	-630.0MV	-1.500 V	-100.0MV
68	3	440.0MV	100.0MV	1.500 V
68	5	440.0MV	100.0MV	1.500 V
68	7	440.0MV	100.0MV	1.500 V
68	9	440.0MV	100.0MV	1.500 V
68	12	440.0MV	100.0MV	1.500 V
68	14	430.0MV	100.0MV	1.500 V
68	16	440.0MV	100.0MV	1.500 V
68	18	430.0MV	100.0MV	1.500 V

 FUNCTIONAL TEST
 VCC= 2
 VIH= 1.500 VIL= 500.0E-03

 VOH1 TEST
 VCC= 2
 VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

 VOL1 TEST
 VCC= 2
 VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.850 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		400.0MV
409	5	150.0MV		400.0MV
415	7	152.0MV		400.0MV
421	9	158.0MV		400.0MV
427	12	156.0MV		400.0MV
433	14	158.0MV		400.0MV
439	16	156.0MV		400.0MV
445	18	158.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.460 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.310 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.300 V	3.700 V	
293	9	4.300 V	3.700 V	
299	12	4.300 V	3.700 V	
305	14	4.300 V	3.700 V	
311	16	4.300 V	3.700 V	
317	18	4.310 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	180.0MV		400.0MV
409	5	178.0MV		400.0MV
415	7	180.0MV		400.0MV
421	9	186.0MV		400.0MV
427	12	184.0MV		400.0MV
433	14	186.0MV		400.0MV
439	16	182.0MV		400.0MV
445	18	186.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.820 V	5.200 V	
281	5	5.810 V	5.200 V	
287	7	5.810 V	5.200 V	
293	9	5.810 V	5.200 V	
299	12	5.810 V	5.200 V	
305	14	5.800 V	5.200 V	
311	16	5.810 V	5.200 V	
317	18	5.820 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	74.00MV		100.0MV
344	5	74.00MV		100.0MV
350	7	72.00MV		100.0MV
356	9	70.00MV		100.0MV
362	12	70.00MV		100.0MV
368	14	72.00MV		100.0MV
374	16	72.00MV		100.0MV
380	18	74.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	200.0MV		400.0MV
409	5	198.0MV		400.0MV
415	7	202.0MV		400.0MV
421	9	206.0MV		400.0MV
427	12	206.0MV		400.0MV
433	14	212.0MV		400.0MV
439	16	210.0MV		400.0MV
445	18	214.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	2.000NA	-1.000UA	1.000UA
484	2	-4.000NA	-1.000UA	1.000UA
487	2	4.000NA	-1.000UA	1.000UA
492	4	-4.000NA	-1.000UA	1.000UA
495	4	3.000NA	-1.000UA	1.000UA
500	6	-4.000NA	-1.000UA	1.000UA
503	6	2.000NA	-1.000UA	1.000UA
508	8	-4.000NA	-1.000UA	1.000UA
511	8	2.000NA	-1.000UA	1.000UA
516	11	-4.000NA	-1.000UA	1.000UA
519	11	2.000NA	-1.000UA	1.000UA
524	13	-4.000NA	-1.000UA	1.000UA
527	13	2.000NA	-1.000UA	1.000UA
532	15	-4.000NA	-1.000UA	1.000UA
535	15	2.000NA	-1.000UA	1.000UA
540	17	-4.000NA	-1.000UA	1.000UA
543	17	1.000NA	-1.000UA	1.000UA
548	19	-4.000NA	-1.000UA	1.000UA
551	19	1.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-5.000NA	-1.000UA	1.000UA
581	3	5.000NA	-1.000UA	1.000UA
586	5	-5.000NA	-1.000UA	1.000UA
589	5	3.000NA	-1.000UA	1.000UA
594	7	-6.000NA	-1.000UA	1.000UA
597	7	3.000NA	-1.000UA	1.000UA
602	9	-6.000NA	-1.000UA	1.000UA
605	9	2.000NA	-1.000UA	1.000UA
613	12	-5.000NA	-1.000UA	1.000UA
616	12	2.000NA	-1.000UA	1.000UA
621	14	-6.000NA	-1.000UA	1.000UA
624	14	2.000NA	-1.000UA	1.000UA
629	16	-6.000NA	-1.000UA	1.000UA
632	16	2.000NA	-1.000UA	1.000UA
637	18	-6.000NA	-1.000UA	1.000UA
640	18	2.000NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	-10.00UA		160.0UA
679	20	-10.00UA		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at -55°C



STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 1

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-740.0MV	-1.500 V	-100.0MV
58	2	-740.0MV	-1.500 V	-100.0MV
58	4	-740.0MV	-1.500 V	-100.0MV
58	6	-740.0MV	-1.500 V	-100.0MV
58	8	-740.0MV	-1.500 V	-100.0MV
58	11	-740.0MV	-1.500 V	-100.0MV
58	13	-750.0MV	-1.500 V	-100.0MV
58	15	-740.0MV	-1.500 V	-100.0MV
58	17	-740.0MV	-1.500 V	-100.0MV
58	19	-740.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	500.0MV	100.0MV	1.500 V
68	7	530.0MV	100.0MV	1.500 V
68	9	530.0MV	100.0MV	1.500 V
68	12	530.0MV	100.0MV	1.500 V
68	14	530.0MV	100.0MV	1.500 V
68	16	530.0MV	100.0MV	1.500 V
68	18	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST

VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.890 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	96.00MV		260.0MV
409	5	94.00MV		260.0MV
415	7	100.0MV		260.0MV
421	9	100.0MV		260.0MV
427	12	106.0MV		260.0MV
433	14	92.00MV		260.0MV
439	16	90.00MV		260.0MV
445	18	96.00MV		260.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.460 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.350 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.350 V	3.980 V	
317	18	4.350 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	40.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	114.0MV		260.0MV
409	5	110.0MV		260.0MV
415	7	120.0MV		260.0MV
421	9	120.0MV		260.0MV
427	12	130.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	108.0MV		260.0MV
445	18	112.0MV		260.0MV

FUNCTIONAL TEST

VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.850 V	5.480 V	
293	9	5.860 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.860 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.870 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	54.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	136.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	152.0MV		260.0MV
433	14	130.0MV		260.0MV
439	16	126.0MV		260.0MV
445	18	134.0MV		260.0MV

IIN TEST

VCC= 6
 IIL/IIH LIMIT +- 0.1UA @25C/-55C
 IIL/IIH LIMIT +- 1.0UA @+125C

```

-----
INST #  PIN  MEASURED      LT      GT
476    1   -3.000NA    -100.0NA  100.0NA
479    1    3.000NA    -100.0NA  100.0NA
484    2   -5.000NA    -100.0NA  100.0NA
487    2    2.000NA    -100.0NA  100.0NA
492    4   -5.000NA    -100.0NA  100.0NA
495    4    3.000NA    -100.0NA  100.0NA
500    6   -5.000NA    -100.0NA  100.0NA
503    6    2.000NA    -100.0NA  100.0NA
508    8   -5.000NA    -100.0NA  100.0NA
511    8    3.000NA    -100.0NA  100.0NA
516   11   -5.000NA    -100.0NA  100.0NA
519   11    2.000NA    -100.0NA  100.0NA
524   13   -5.000NA    -100.0NA  100.0NA
527   13    3.000NA    -100.0NA  100.0NA
532   15   -5.000NA    -100.0NA  100.0NA
535   15    2.000NA    -100.0NA  100.0NA
540   17   -5.000NA    -100.0NA  100.0NA
543   17    2.000NA    -100.0NA  100.0NA
548   19   -5.000NA    -100.0NA  100.0NA
551   19    2.000NA    -100.0NA  100.0NA
  
```

IOZ TEST
 VCC= 6
 IOZ LIMIT +- 0.5UA @25C/-55C
 IOZ LIMIT +- 10UA @+125C

```

-----
INST #  PIN  MEASURED      LT      GT
578    3   -4.000NA    -100.0NA  100.0NA
581    3    3.000NA    -100.0NA  100.0NA
586    5   -5.000NA    -100.0NA  100.0NA
589    5    3.000NA    -100.0NA  100.0NA
594    7   -5.000NA    -100.0NA  100.0NA
597    7    3.000NA    -100.0NA  100.0NA
602    9   -6.000NA    -100.0NA  100.0NA
605    9    2.000NA    -100.0NA  100.0NA
613   12   -5.000NA    -100.0NA  100.0NA
616   12    3.000NA    -100.0NA  100.0NA
621   14   -6.000NA    -100.0NA  100.0NA
624   14    2.000NA    -100.0NA  100.0NA
629   16   -5.000NA    -100.0NA  100.0NA
632   16    2.000NA    -100.0NA  100.0NA
637   18   -5.000NA    -100.0NA  100.0NA
640   18    2.000NA    -100.0NA  100.0NA
  
```

ICC TEST
 VCC= 6
 ICC LIMIT MAX. 4.0UA @25C/-55C
 ICC LIMIT MAX. 160UA @+125C

```

-----
INST #  PIN  MEASURED      LT      GT
672    20    1.000NA      LT      4.000UA
679    20  -10.000NA     LT      4.000UA
  
```

```

EIR 1.....10    FCT    DCT
      000000000    PASS    PASS    EOT
  
```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 2

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-730.0MV	-1.500 V	-100.0MV
58	2	-730.0MV	-1.500 V	-100.0MV
58	4	-730.0MV	-1.500 V	-100.0MV
58	6	-730.0MV	-1.500 V	-100.0MV
58	8	-730.0MV	-1.500 V	-100.0MV
58	11	-730.0MV	-1.500 V	-100.0MV
58	13	-740.0MV	-1.500 V	-100.0MV
58	15	-740.0MV	-1.500 V	-100.0MV
58	17	-740.0MV	-1.500 V	-100.0MV
58	19	-740.0MV	-1.500 V	-100.0MV
68	3	480.0MV	100.0MV	1.500 V
68	5	530.0MV	100.0MV	1.500 V
68	7	530.0MV	100.0MV	1.500 V
68	9	530.0MV	100.0MV	1.500 V
68	12	530.0MV	100.0MV	1.500 V
68	14	530.0MV	100.0MV	1.500 V
68	16	530.0MV	100.0MV	1.500 V
68	18	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.900 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	98.00MV		260.0MV
409	5	98.00MV		260.0MV
415	7	104.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	112.0MV		260.0MV
433	14	96.00MV		260.0MV
439	16	94.00MV		260.0MV
445	18	100.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.460 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.350 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.350 V	3.980 V	
311	16	4.350 V	3.980 V	
317	18	4.360 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	114.0MV		260.0MV
409	5	112.0MV		260.0MV
415	7	122.0MV		260.0MV
421	9	122.0MV		260.0MV
427	12	134.0MV		260.0MV
433	14	112.0MV		260.0MV
439	16	110.0MV		260.0MV
445	18	114.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.850 V	5.480 V	
293	9	5.860 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.860 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.870 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	136.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	144.0MV		260.0MV
421	9	140.0MV		260.0MV
427	12	152.0MV		260.0MV
433	14	134.0MV		260.0MV
439	16	128.0MV		260.0MV
445	18	134.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	5.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	6.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-10.00NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 3

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-710.0MV	-1.500 V	-100.0MV
58	2	-710.0MV	-1.500 V	-100.0MV
58	4	-710.0MV	-1.500 V	-100.0MV
58	6	-710.0MV	-1.500 V	-100.0MV
58	8	-710.0MV	-1.500 V	-100.0MV
58	11	-710.0MV	-1.500 V	-100.0MV
58	13	-710.0MV	-1.500 V	-100.0MV
58	15	-710.0MV	-1.500 V	-100.0MV
58	17	-710.0MV	-1.500 V	-100.0MV
58	19	-710.0MV	-1.500 V	-100.0MV
68	3	450.0MV	100.0MV	1.500 V
68	5	510.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	500.0MV	100.0MV	1.500 V
68	12	500.0MV	100.0MV	1.500 V
68	14	500.0MV	100.0MV	1.500 V
68	16	510.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.890 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	104.0MV		260.0MV
409	5	100.0MV		260.0MV
415	7	108.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	112.0MV		260.0MV
433	14	98.00MV		260.0MV
439	16	96.00MV		260.0MV
445	18	104.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.460 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	126.0MV		260.0MV
409	5	120.0MV		260.0MV
415	7	134.0MV		260.0MV
421	9	126.0MV		260.0MV
427	12	138.0MV		260.0MV
433	14	120.0MV		260.0MV
439	16	116.0MV		260.0MV
445	18	124.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.830 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.850 V	5.480 V	
311	16	5.850 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	58.00MV		100.0MV
344	5	58.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	56.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	56.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	148.0MV		260.0MV
409	5	142.0MV		260.0MV
415	7	156.0MV		260.0MV
421	9	146.0MV		260.0MV
427	12	160.0MV		260.0MV
433	14	140.0MV		260.0MV
439	16	138.0MV		260.0MV
445	18	146.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	4.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	17.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	24.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	11.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	25.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	4.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 4

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-730.0MV	-1.500 V	-100.0MV
58	2	-730.0MV	-1.500 V	-100.0MV
58	4	-730.0MV	-1.500 V	-100.0MV
58	6	-730.0MV	-1.500 V	-100.0MV
58	8	-730.0MV	-1.500 V	-100.0MV
58	11	-730.0MV	-1.500 V	-100.0MV
58	13	-730.0MV	-1.500 V	-100.0MV
58	15	-730.0MV	-1.500 V	-100.0MV
58	17	-730.0MV	-1.500 V	-100.0MV
58	19	-730.0MV	-1.500 V	-100.0MV
68	3	520.0MV	100.0MV	1.500 V
68	5	520.0MV	100.0MV	1.500 V
68	7	520.0MV	100.0MV	1.500 V
68	9	520.0MV	100.0MV	1.500 V
68	12	520.0MV	100.0MV	1.500 V
68	14	520.0MV	100.0MV	1.500 V
68	16	530.0MV	100.0MV	1.500 V
68	18	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV


```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.890 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	104.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	110.0MV		260.0MV
421	9	104.0MV		260.0MV
427	12	108.0MV		260.0MV
433	14	100.0MV		260.0MV
439	16	98.00MV		260.0MV
445	18	102.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.460 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.350 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.350 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	124.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	132.0MV		260.0MV
421	9	124.0MV		260.0MV
427	12	132.0MV		260.0MV
433	14	118.0MV		260.0MV
439	16	114.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.850 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.860 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	146.0MV		260.0MV
409	5	134.0MV		260.0MV
415	7	152.0MV		260.0MV
421	9	144.0MV		260.0MV
427	12	156.0MV		260.0MV
433	14	138.0MV		260.0MV
439	16	134.0MV		260.0MV
445	18	140.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	6.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	11.00NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	4.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	10.00NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	60.00NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	65.00NA	-100.0NA	100.0NA
548	19	-15.00NA	-100.0NA	100.0NA
551	19	17.00NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-5.000NA	-100.0NA	100.0NA
581	3	11.00NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-7.000NA	-100.0NA	100.0NA
597	7	5.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	28.00NA	-100.0NA	100.0NA
629	16	-4.000NA	-100.0NA	100.0NA
632	16	54.00NA	-100.0NA	100.0NA
637	18	-4.000NA	-100.0NA	100.0NA
640	18	80.00NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	12.00NA		4.000UA
679	20	23.00NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 6

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-720.0MV	-1.500 V	-100.0MV
58	2	-730.0MV	-1.500 V	-100.0MV
58	4	-720.0MV	-1.500 V	-100.0MV
58	6	-720.0MV	-1.500 V	-100.0MV
58	8	-730.0MV	-1.500 V	-100.0MV
58	11	-730.0MV	-1.500 V	-100.0MV
58	13	-730.0MV	-1.500 V	-100.0MV
58	15	-730.0MV	-1.500 V	-100.0MV
58	17	-730.0MV	-1.500 V	-100.0MV
58	19	-730.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	520.0MV	100.0MV	1.500 V
68	7	520.0MV	100.0MV	1.500 V
68	9	520.0MV	100.0MV	1.500 V
68	12	520.0MV	100.0MV	1.500 V
68	14	530.0MV	100.0MV	1.500 V
68	16	530.0MV	100.0MV	1.500 V
68	18	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.890 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	98.00MV		260.0MV
409	5	98.00MV		260.0MV
415	7	100.0MV		260.0MV
421	9	102.0MV		260.0MV
427	12	106.0MV		260.0MV
433	14	96.00MV		260.0MV
439	16	94.00MV		260.0MV
445	18	100.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.460 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.350 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.350 V	3.980 V	
311	16	4.350 V	3.980 V	
317	18	4.350 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	116.0MV		260.0MV
409	5	114.0MV		260.0MV
415	7	116.0MV		260.0MV
421	9	120.0MV		260.0MV
427	12	124.0MV		260.0MV
433	14	114.0MV		260.0MV
439	16	112.0MV		260.0MV
445	18	116.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT  5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.860 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.860 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.870 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		260.0MV
409	5	136.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	140.0MV		260.0MV
427	12	148.0MV		260.0MV
433	14	134.0MV		260.0MV
439	16	132.0MV		260.0MV
445	18	136.0MV		260.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-8.000NA	-100.0NA	100.0NA
479	1	13.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	12.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-5.000NA	-100.0NA	100.0NA
581	3	5.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-4.000UA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 7

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-730.0MV	-1.500 V	-100.0MV
58	2	-730.0MV	-1.500 V	-100.0MV
58	4	-730.0MV	-1.500 V	-100.0MV
58	6	-730.0MV	-1.500 V	-100.0MV
58	8	-730.0MV	-1.500 V	-100.0MV
58	11	-730.0MV	-1.500 V	-100.0MV
58	13	-740.0MV	-1.500 V	-100.0MV
58	15	-740.0MV	-1.500 V	-100.0MV
58	17	-730.0MV	-1.500 V	-100.0MV
58	19	-740.0MV	-1.500 V	-100.0MV
68	3	490.0MV	100.0MV	1.500 V
68	5	530.0MV	100.0MV	1.500 V
68	7	530.0MV	100.0MV	1.500 V
68	9	530.0MV	100.0MV	1.500 V
68	12	530.0MV	100.0MV	1.500 V
68	14	530.0MV	100.0MV	1.500 V
68	16	530.0MV	100.0MV	1.500 V
68	18	530.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.890 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.890 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	96.00MV		260.0MV
409	5	94.00MV		260.0MV
415	7	96.00MV		260.0MV
421	9	96.00MV		260.0MV
427	12	104.0MV		260.0MV
433	14	92.00MV		260.0MV
439	16	92.00MV		260.0MV
445	18	98.00MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.460 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.350 V	3.980 V	
293	9	4.350 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.350 V	3.980 V	
311	16	4.350 V	3.980 V	
317	18	4.360 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	118.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	116.0MV		260.0MV
421	9	120.0MV		260.0MV
427	12	126.0MV		260.0MV
433	14	114.0MV		260.0MV
439	16	110.0MV		260.0MV
445	18	118.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.860 V	5.480 V	
293	9	5.870 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.860 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.870 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	62.00MV		100.0MV
344	5	62.00MV		100.0MV
350	7	62.00MV		100.0MV
356	9	60.00MV		100.0MV
362	12	60.00MV		100.0MV
368	14	60.00MV		100.0MV
374	16	60.00MV		100.0MV
380	18	62.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	142.0MV		260.0MV
409	5	140.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	142.0MV		260.0MV
427	12	154.0MV		260.0MV
433	14	136.0MV		260.0MV
439	16	136.0MV		260.0MV
445	18	142.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	4.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	4.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	2.000NA		4.000UA
679	20	-8.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 10

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-700.0MV	-1.500 V	-100.0MV
58	2	-700.0MV	-1.500 V	-100.0MV
58	4	-710.0MV	-1.500 V	-100.0MV
58	6	-710.0MV	-1.500 V	-100.0MV
58	8	-710.0MV	-1.500 V	-100.0MV
58	11	-710.0MV	-1.500 V	-100.0MV
58	13	-710.0MV	-1.500 V	-100.0MV
58	15	-710.0MV	-1.500 V	-100.0MV
58	17	-710.0MV	-1.500 V	-100.0MV
58	19	-710.0MV	-1.500 V	-100.0MV
68	3	440.0MV	100.0MV	1.500 V
68	5	500.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	500.0MV	100.0MV	1.500 V
68	12	510.0MV	100.0MV	1.500 V
68	14	510.0MV	100.0MV	1.500 V
68	16	510.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV


```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	106.0MV		260.0MV
409	5	102.0MV		260.0MV
415	7	106.0MV		260.0MV
421	9	108.0MV		260.0MV
427	12	116.0MV		260.0MV
433	14	102.0MV		260.0MV
439	16	100.0MV		260.0MV
445	18	104.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.330 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.350 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	48.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	48.00MV		100.0MV
380	18	48.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	140.0MV		260.0MV
409	5	128.0MV		260.0MV
415	7	136.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	150.0MV		260.0MV
433	14	130.0MV		260.0MV
439	16	128.0MV		260.0MV
445	18	132.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.980 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.850 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.860 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	76.00MV		100.0MV
344	5	76.00MV		100.0MV
350	7	74.00MV		100.0MV
356	9	72.00MV		100.0MV
362	12	74.00MV		100.0MV
368	14	74.00MV		100.0MV
374	16	74.00MV		100.0MV
380	18	74.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	174.0MV		260.0MV
409	5	160.0MV		260.0MV
415	7	166.0MV		260.0MV
421	9	170.0MV		260.0MV
427	12	182.0MV		260.0MV
433	14	162.0MV		260.0MV
439	16	156.0MV		260.0MV
445	18	162.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	4.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	4.000NA	-100.0NA	100.0NA
492	4	-6.000NA	-100.0NA	100.0NA
495	4	11.00NA	-100.0NA	100.0NA
500	6	-10.00NA	-100.0NA	100.0NA
503	6	54.00NA	-100.0NA	100.0NA
508	8	-6.000NA	-100.0NA	100.0NA
511	8	41.00NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	3.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	6.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	19.00NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	84.00NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	39.00NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	11.00NA		4.000UA
679	20	-4.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 11

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-710.0MV	-1.500 V	-100.0MV
58	2	-710.0MV	-1.500 V	-100.0MV
58	4	-710.0MV	-1.500 V	-100.0MV
58	6	-710.0MV	-1.500 V	-100.0MV
58	8	-710.0MV	-1.500 V	-100.0MV
58	11	-710.0MV	-1.500 V	-100.0MV
58	13	-720.0MV	-1.500 V	-100.0MV
58	15	-710.0MV	-1.500 V	-100.0MV
58	17	-720.0MV	-1.500 V	-100.0MV
58	19	-720.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	520.0MV	100.0MV	1.500 V
68	7	520.0MV	100.0MV	1.500 V
68	9	520.0MV	100.0MV	1.500 V
68	12	520.0MV	100.0MV	1.500 V
68	14	520.0MV	100.0MV	1.500 V
68	16	520.0MV	100.0MV	1.500 V
68	18	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.900 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	102.0MV		260.0MV
409	5	102.0MV		260.0MV
415	7	106.0MV		260.0MV
421	9	110.0MV		260.0MV
427	12	114.0MV		260.0MV
433	14	102.0MV		260.0MV
439	16	100.0MV		260.0MV
445	18	106.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.360 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	46.00MV		100.0MV
344	5	46.00MV		100.0MV
350	7	44.00MV		100.0MV
356	9	44.00MV		100.0MV
362	12	44.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	44.00MV		100.0MV
380	18	44.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	130.0MV		260.0MV
409	5	128.0MV		260.0MV
415	7	132.0MV		260.0MV
421	9	136.0MV		260.0MV
427	12	144.0MV		260.0MV
433	14	126.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	130.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.850 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.830 V	5.480 V	
305	14	5.850 V	5.480 V	
311	16	5.850 V	5.480 V	
317	18	5.870 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	70.00MV		100.0MV
344	5	70.00MV		100.0MV
350	7	68.00MV		100.0MV
356	9	68.00MV		100.0MV
362	12	66.00MV		100.0MV
368	14	66.00MV		100.0MV
374	16	66.00MV		100.0MV
380	18	68.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	156.0MV		260.0MV
409	5	150.0MV		260.0MV
415	7	156.0MV		260.0MV
421	9	160.0MV		260.0MV
427	12	170.0MV		260.0MV
433	14	150.0MV		260.0MV
439	16	146.0MV		260.0MV
445	18	152.0MV		260.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	54.000NA	-100.0NA	100.0NA
484	2	-6.000NA	-100.0NA	100.0NA
487	2	76.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-6.000NA	-100.0NA	100.0NA
581	3	32.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	4.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	5.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-3.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 12

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-720.0MV	-1.500 V	-100.0MV
58	2	-720.0MV	-1.500 V	-100.0MV
58	4	-720.0MV	-1.500 V	-100.0MV
58	6	-720.0MV	-1.500 V	-100.0MV
58	8	-720.0MV	-1.500 V	-100.0MV
58	11	-720.0MV	-1.500 V	-100.0MV
58	13	-720.0MV	-1.500 V	-100.0MV
58	15	-720.0MV	-1.500 V	-100.0MV
58	17	-720.0MV	-1.500 V	-100.0MV
58	19	-720.0MV	-1.500 V	-100.0MV
68	3	500.0MV	100.0MV	1.500 V
68	5	520.0MV	100.0MV	1.500 V
68	7	520.0MV	100.0MV	1.500 V
68	9	520.0MV	100.0MV	1.500 V
68	12	520.0MV	100.0MV	1.500 V
68	14	520.0MV	100.0MV	1.500 V
68	16	520.0MV	100.0MV	1.500 V
68	18	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.890 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.890 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	100.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	98.00MV		260.0MV
421	9	102.0MV		260.0MV
427	12	104.0MV		260.0MV
433	14	96.00MV		260.0MV
439	16	94.00MV		260.0MV
445	18	100.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.350 V	3.980 V	
293	9	4.350 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.350 V	3.980 V	
311	16	4.350 V	3.980 V	
317	18	4.360 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	122.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	120.0MV		260.0MV
421	9	124.0MV		260.0MV
427	12	130.0MV		260.0MV
433	14	114.0MV		260.0MV
439	16	114.0MV		260.0MV
445	18	118.0MV		260.0MV

FUNCTIONAL TEST
VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.860 V	5.480 V	
293	9	5.860 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.860 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.870 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	58.00MV		100.0MV
344	5	58.00MV		100.0MV
350	7	58.00MV		100.0MV
356	9	58.00MV		100.0MV
362	12	56.00MV		100.0MV
368	14	58.00MV		100.0MV
374	16	58.00MV		100.0MV
380	18	58.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	144.0MV		260.0MV
409	5	138.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	146.0MV		260.0MV
427	12	158.0MV		260.0MV
433	14	136.0MV		260.0MV
439	16	136.0MV		260.0MV
445	18	142.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	6.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	4.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	10.00NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000NA		4.000UA
679	20	-9.000NA		4.000UA

```

EIR 1.....10      FCT      DCT
      0000000000    PASS     PASS     EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 5

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-720.0MV	-1.500 V	-100.0MV
58	2	-720.0MV	-1.500 V	-100.0MV
58	4	-720.0MV	-1.500 V	-100.0MV
58	6	-720.0MV	-1.500 V	-100.0MV
58	8	-720.0MV	-1.500 V	-100.0MV
58	11	-720.0MV	-1.500 V	-100.0MV
58	13	-720.0MV	-1.500 V	-100.0MV
58	15	-730.0MV	-1.500 V	-100.0MV
58	17	-720.0MV	-1.500 V	-100.0MV
58	19	-720.0MV	-1.500 V	-100.0MV
68	3	510.0MV	100.0MV	1.500 V
68	5	530.0MV	100.0MV	1.500 V
68	7	520.0MV	100.0MV	1.500 V
68	9	520.0MV	100.0MV	1.500 V
68	12	520.0MV	100.0MV	1.500 V
68	14	520.0MV	100.0MV	1.500 V
68	16	530.0MV	100.0MV	1.500 V
68	18	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	104.0MV		260.0MV
409	5	102.0MV		260.0MV
415	7	102.0MV		260.0MV
421	9	106.0MV		260.0MV
427	12	110.0MV		260.0MV
433	14	100.0MV		260.0MV
439	16	98.00MV		260.0MV
445	18	102.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.330 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.360 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	122.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	120.0MV		260.0MV
421	9	126.0MV		260.0MV
427	12	134.0MV		260.0MV
433	14	116.0MV		260.0MV
439	16	114.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.980 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.850 V	5.480 V	
293	9	5.860 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.850 V	5.480 V	
311	16	5.850 V	5.480 V	
317	18	5.870 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	140.0MV		260.0MV
409	5	132.0MV		260.0MV
415	7	136.0MV		260.0MV
421	9	140.0MV		260.0MV
427	12	152.0MV		260.0MV
433	14	132.0MV		260.0MV
439	16	130.0MV		260.0MV
445	18	136.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	50.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	51.000NA	-100.0NA	100.0NA
492	4	-6.000NA	-100.0NA	100.0NA
495	4	4.000NA	-100.0NA	100.0NA
500	6	-6.000NA	-100.0NA	100.0NA
503	6	43.000NA	-100.0NA	100.0NA
508	8	-6.000NA	-100.0NA	100.0NA
511	8	29.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	10.000NA	-100.0NA	100.0NA
524	13	-6.000NA	-100.0NA	100.0NA
527	13	12.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	4.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-7.000NA	-100.0NA	100.0NA
551	19	3.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	8.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	8.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	72.000NA	-100.0NA	100.0NA
602	9	-5.000NA	-100.0NA	100.0NA
605	9	26.000NA	-100.0NA	100.0NA
613	12	-4.000NA	-100.0NA	100.0NA
616	12	8.000NA	-100.0NA	100.0NA
621	14	-5.000NA	-100.0NA	100.0NA
624	14	13.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-3.000NA		4.000UA

```

EIR 1.....10      FCT      DCT
      0000000000    PASS     PASS     EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 8

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-710.0MV	-1.500 V	-100.0MV
58	2	-710.0MV	-1.500 V	-100.0MV
58	4	-710.0MV	-1.500 V	-100.0MV
58	6	-710.0MV	-1.500 V	-100.0MV
58	8	-710.0MV	-1.500 V	-100.0MV
58	11	-710.0MV	-1.500 V	-100.0MV
58	13	-710.0MV	-1.500 V	-100.0MV
58	15	-710.0MV	-1.500 V	-100.0MV
58	17	-710.0MV	-1.500 V	-100.0MV
58	19	-710.0MV	-1.500 V	-100.0MV
68	3	490.0MV	100.0MV	1.500 V
68	5	510.0MV	100.0MV	1.500 V
68	7	500.0MV	100.0MV	1.500 V
68	9	510.0MV	100.0MV	1.500 V
68	12	510.0MV	100.0MV	1.500 V
68	14	510.0MV	100.0MV	1.500 V
68	16	510.0MV	100.0MV	1.500 V
68	18	500.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.890 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.890 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.890 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	128.0MV		260.0MV
409	5	126.0MV		260.0MV
415	7	128.0MV		260.0MV
421	9	134.0MV		260.0MV
427	12	132.0MV		260.0MV
433	14	122.0MV		260.0MV
439	16	118.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.460 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.350 V	3.980 V	
281	5	4.350 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.350 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.350 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	44.00MV		100.0MV
344	5	44.00MV		100.0MV
350	7	44.00MV		100.0MV
356	9	44.00MV		100.0MV
362	12	44.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	44.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	124.0MV		260.0MV
409	5	116.0MV		260.0MV
415	7	122.0MV		260.0MV
421	9	128.0MV		260.0MV
427	12	134.0MV		260.0MV
433	14	120.0MV		260.0MV
439	16	116.0MV		260.0MV
445	18	120.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT 5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.860 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.860 V	5.480 V	
293	9	5.860 V	5.480 V	
299	12	5.850 V	5.480 V	
305	14	5.860 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.870 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	56.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	56.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	56.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	140.0MV		260.0MV
409	5	132.0MV		260.0MV
415	7	136.0MV		260.0MV
421	9	142.0MV		260.0MV
427	12	150.0MV		260.0MV
433	14	136.0MV		260.0MV
439	16	132.0MV		260.0MV
445	18	136.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-6.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	21.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	5.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-6.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	4.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	3.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	4.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	5.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	33.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	6.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	2.000NA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 9

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 -55C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-720.0MV	-1.500 V	-100.0MV
58	2	-720.0MV	-1.500 V	-100.0MV
58	4	-730.0MV	-1.500 V	-100.0MV
58	6	-730.0MV	-1.500 V	-100.0MV
58	8	-730.0MV	-1.500 V	-100.0MV
58	11	-730.0MV	-1.500 V	-100.0MV
58	13	-730.0MV	-1.500 V	-100.0MV
58	15	-730.0MV	-1.500 V	-100.0MV
58	17	-730.0MV	-1.500 V	-100.0MV
58	19	-730.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	520.0MV	100.0MV	1.500 V
68	7	530.0MV	100.0MV	1.500 V
68	9	520.0MV	100.0MV	1.500 V
68	12	520.0MV	100.0MV	1.500 V
68	14	530.0MV	100.0MV	1.500 V
68	16	530.0MV	100.0MV	1.500 V
68	18	520.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.890 V	2.480 V	
287	7	2.880 V	2.480 V	
293	9	2.890 V	2.480 V	
299	12	2.880 V	2.480 V	
305	14	2.890 V	2.480 V	
311	16	2.890 V	2.480 V	
317	18	2.900 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	102.0MV		260.0MV
409	5	98.00MV		260.0MV
415	7	104.0MV		260.0MV
421	9	106.0MV		260.0MV
427	12	108.0MV		260.0MV
433	14	98.00MV		260.0MV
439	16	96.00MV		260.0MV
445	18	102.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.340 V	3.980 V	
287	7	4.340 V	3.980 V	
293	9	4.340 V	3.980 V	
299	12	4.340 V	3.980 V	
305	14	4.340 V	3.980 V	
311	16	4.340 V	3.980 V	
317	18	4.350 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	46.00MV		100.0MV
344	5	44.00MV		100.0MV
350	7	44.00MV		100.0MV
356	9	44.00MV		100.0MV
362	12	44.00MV		100.0MV
368	14	44.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	44.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	128.0MV		260.0MV
409	5	122.0MV		260.0MV
415	7	132.0MV		260.0MV
421	9	130.0MV		260.0MV
427	12	136.0MV		260.0MV
433	14	124.0MV		260.0MV
439	16	120.0MV		260.0MV
445	18	124.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.860 V	5.480 V	
287	7	5.840 V	5.480 V	
293	9	5.850 V	5.480 V	
299	12	5.840 V	5.480 V	
305	14	5.850 V	5.480 V	
311	16	5.860 V	5.480 V	
317	18	5.870 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	70.00MV		100.0MV
344	5	70.00MV		100.0MV
350	7	70.00MV		100.0MV
356	9	68.00MV		100.0MV
362	12	68.00MV		100.0MV
368	14	68.00MV		100.0MV
374	16	68.00MV		100.0MV
380	18	68.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	162.0MV		260.0MV
409	5	154.0MV		260.0MV
415	7	162.0MV		260.0MV
421	9	162.0MV		260.0MV
427	12	168.0MV		260.0MV
433	14	154.0MV		260.0MV
439	16	152.0MV		260.0MV
445	18	156.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	5.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	9.000NA	-100.0NA	100.0NA
492	4	-6.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-6.000NA	-100.0NA	100.0NA
503	6	14.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	4.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-6.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	10.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	3.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	6.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	4.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	12.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-6.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-5.000NA	-100.0NA	100.0NA
632	16	18.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	1.000UA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at 25°C



STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 1

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-650.0MV	-1.500 V	-100.0MV
58	2	-650.0MV	-1.500 V	-100.0MV
58	4	-650.0MV	-1.500 V	-100.0MV
58	6	-650.0MV	-1.500 V	-100.0MV
58	8	-650.0MV	-1.500 V	-100.0MV
58	11	-650.0MV	-1.500 V	-100.0MV
58	13	-650.0MV	-1.500 V	-100.0MV
58	15	-650.0MV	-1.500 V	-100.0MV
58	17	-650.0MV	-1.500 V	-100.0MV
58	19	-650.0MV	-1.500 V	-100.0MV
68	3	450.0MV	100.0MV	1.500 V
68	5	460.0MV	100.0MV	1.500 V
68	7	460.0MV	100.0MV	1.500 V
68	9	460.0MV	100.0MV	1.500 V
68	12	450.0MV	100.0MV	1.500 V
68	14	460.0MV	100.0MV	1.500 V
68	16	460.0MV	100.0MV	1.500 V
68	18	450.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	32.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST

VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.480

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.860 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	108.0MV		260.0MV
409	5	108.0MV		260.0MV
415	7	112.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	108.0MV		260.0MV
439	16	104.0MV		260.0MV
445	18	112.0MV		260.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.460 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.340 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	38.00MV		100.0MV
380	18	40.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	136.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	144.0MV		260.0MV
433	14	128.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	132.0MV		260.0MV

FUNCTIONAL TEST

VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.480

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.850 V	5.480 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		260.0MV
409	5	146.0MV		260.0MV
415	7	154.0MV		260.0MV
421	9	158.0MV		260.0MV
427	12	166.0MV		260.0MV
433	14	148.0MV		260.0MV
439	16	142.0MV		260.0MV
445	18	152.0MV		260.0MV

IIN TEST

VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
476     1   -4.000NA    -100.0NA   100.0NA  
479     1    2.000NA    -100.0NA   100.0NA  
484     2   -5.000NA    -100.0NA   100.0NA  
487     2    2.000NA    -100.0NA   100.0NA  
492     4   -6.000NA    -100.0NA   100.0NA  
495     4    2.000NA    -100.0NA   100.0NA  
500     6   -6.000NA    -100.0NA   100.0NA  
503     6    2.000NA    -100.0NA   100.0NA  
508     8   -6.000NA    -100.0NA   100.0NA  
511     8    2.000NA    -100.0NA   100.0NA  
516    11   -6.000NA    -100.0NA   100.0NA  
519    11    2.000NA    -100.0NA   100.0NA  
524    13   -6.000NA    -100.0NA   100.0NA  
527    13    2.000NA    -100.0NA   100.0NA  
532    15   -6.000NA    -100.0NA   100.0NA  
535    15    2.000NA    -100.0NA   100.0NA  
540    17   -6.000NA    -100.0NA   100.0NA  
543    17    2.000NA    -100.0NA   100.0NA  
548    19   -6.000NA    -100.0NA   100.0NA  
551    19    2.000NA    -100.0NA   100.0NA  
-----
```

IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
578     3   -5.000NA    -100.0NA   100.0NA  
581     3    3.000NA    -100.0NA   100.0NA  
586     5   -6.000NA    -100.0NA   100.0NA  
589     5    3.000NA    -100.0NA   100.0NA  
594     7   -6.000NA    -100.0NA   100.0NA  
597     7    2.000NA    -100.0NA   100.0NA  
602     9   -6.000NA    -100.0NA   100.0NA  
605     9    2.000NA    -100.0NA   100.0NA  
613    12   -6.000NA    -100.0NA   100.0NA  
616    12    2.000NA    -100.0NA   100.0NA  
621    14   -6.000NA    -100.0NA   100.0NA  
624    14    2.000NA    -100.0NA   100.0NA  
629    16   -6.000NA    -100.0NA   100.0NA  
632    16    2.000NA    -100.0NA   100.0NA  
637    18   -6.000NA    -100.0NA   100.0NA  
640    18    2.000NA    -100.0NA   100.0NA  
-----
```

ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C

```
-----  
INST #  PIN  MEASURED      LT          GT  
672    20    6.000NA  
679    20   -2.000NA      4.000UA  
-----
```

EIR 1.....10 FCT DCT
000000000 PASS PASS EOT

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 2

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-670.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-670.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-670.0MV	-1.500 V	-100.0MV
58	11	-670.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-670.0MV	-1.500 V	-100.0MV
58	17	-670.0MV	-1.500 V	-100.0MV
58	19	-670.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	480.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	480.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	480.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.860 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	110.0MV		260.0MV
409	5	110.0MV		260.0MV
415	7	114.0MV		260.0MV
421	9	118.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	108.0MV		260.0MV
445	18	116.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.460 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	142.0MV		260.0MV
427	12	148.0MV		260.0MV
433	14	134.0MV		260.0MV
439	16	130.0MV		260.0MV
445	18	136.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.980 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT  5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.830 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		260.0MV
409	5	148.0MV		260.0MV
415	7	160.0MV		260.0MV
421	9	160.0MV		260.0MV
427	12	170.0MV		260.0MV
433	14	152.0MV		260.0MV
439	16	146.0MV		260.0MV
445	18	154.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	0 A	-100.0NA	100.0NA
479	1	4.000NA	-100.0NA	100.0NA
484	2	-4.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-6.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 3

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-670.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-670.0MV	-1.500 V	-100.0MV
58	6	-670.0MV	-1.500 V	-100.0MV
58	8	-670.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-670.0MV	-1.500 V	-100.0MV
58	17	-670.0MV	-1.500 V	-100.0MV
58	19	-670.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	460.0MV	100.0MV	1.500 V
68	12	460.0MV	100.0MV	1.500 V
68	14	460.0MV	100.0MV	1.500 V
68	16	460.0MV	100.0MV	1.500 V
68	18	460.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	110.0MV		260.0MV
409	5	108.0MV		260.0MV
415	7	114.0MV		260.0MV
421	9	112.0MV		260.0MV
427	12	116.0MV		260.0MV
433	14	104.0MV		260.0MV
439	16	104.0MV		260.0MV
445	18	112.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.330 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	134.0MV		260.0MV
427	12	142.0MV		260.0MV
433	14	128.0MV		260.0MV
439	16	126.0MV		260.0MV
445	18	134.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.830 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.840 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.840 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	58.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	56.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	56.00MV		100.0MV
368	14	56.00MV		100.0MV
374	16	56.00MV		100.0MV
380	18	56.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	156.0MV		260.0MV
409	5	150.0MV		260.0MV
415	7	160.0MV		260.0MV
421	9	156.0MV		260.0MV
427	12	166.0MV		260.0MV
433	14	150.0MV		260.0MV
439	16	146.0MV		260.0MV
445	18	156.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-6.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-6.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	6.000NA		4.000UA
679	20	-5.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 4

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-670.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	480.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.860 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	112.0MV		260.0MV
409	5	110.0MV		260.0MV
415	7	116.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	126.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	110.0MV		260.0MV
445	18	116.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.460 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	152.0MV		260.0MV
433	14	132.0MV		260.0MV
439	16	130.0MV		260.0MV
445	18	136.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.980 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.840 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	154.0MV		260.0MV
409	5	148.0MV		260.0MV
415	7	162.0MV		260.0MV
421	9	158.0MV		260.0MV
427	12	168.0MV		260.0MV
433	14	152.0MV		260.0MV
439	16	148.0MV		260.0MV
445	18	156.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-6.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 5

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-670.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-670.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	480.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	480.0MV	100.0MV	1.500 V
68	9	480.0MV	100.0MV	1.500 V
68	12	480.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	480.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	110.0MV		260.0MV
409	5	108.0MV		260.0MV
415	7	114.0MV		260.0MV
421	9	114.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	108.0MV		260.0MV
439	16	106.0MV		260.0MV
445	18	114.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.460 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		260.0MV
409	5	128.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	136.0MV		260.0MV
427	12	146.0MV		260.0MV
433	14	130.0MV		260.0MV
439	16	126.0MV		260.0MV
445	18	136.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.840 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		260.0MV
409	5	146.0MV		260.0MV
415	7	160.0MV		260.0MV
421	9	156.0MV		260.0MV
427	12	170.0MV		260.0MV
433	14	148.0MV		260.0MV
439	16	146.0MV		260.0MV
445	18	154.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-5.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 6

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	480.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV


```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	110.0MV		260.0MV
409	5	110.0MV		260.0MV
415	7	114.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	122.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	108.0MV		260.0MV
445	18	112.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.460 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	140.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	150.0MV		260.0MV
433	14	132.0MV		260.0MV
439	16	126.0MV		260.0MV
445	18	136.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.810 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		260.0MV
409	5	148.0MV		260.0MV
415	7	160.0MV		260.0MV
421	9	156.0MV		260.0MV
427	12	170.0MV		260.0MV
433	14	150.0MV		260.0MV
439	16	144.0MV		260.0MV
445	18	154.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	2.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-6.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	3.000NA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 7

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	460.0MV	100.0MV	1.500 V
68	16	460.0MV	100.0MV	1.500 V
68	18	460.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	32.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	110.0MV		260.0MV
409	5	106.0MV		260.0MV
415	7	112.0MV		260.0MV
421	9	112.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	104.0MV		260.0MV
439	16	104.0MV		260.0MV
445	18	112.0MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.320 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.330 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	40.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		260.0MV
409	5	128.0MV		260.0MV
415	7	136.0MV		260.0MV
421	9	134.0MV		260.0MV
427	12	146.0MV		260.0MV
433	14	128.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	134.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.840 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	152.0MV		260.0MV
409	5	146.0MV		260.0MV
415	7	158.0MV		260.0MV
421	9	154.0MV		260.0MV
427	12	170.0MV		260.0MV
433	14	148.0MV		260.0MV
439	16	144.0MV		260.0MV
445	18	154.0MV		260.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	4.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-6.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-6.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	6.000NA		4.000UA
679	20	-5.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 8

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	460.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.890 V	2.480 V	
281	5	2.880 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	106.0MV		260.0MV
409	5	106.0MV		260.0MV
415	7	114.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	104.0MV		260.0MV
445	18	110.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.460 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.340 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	38.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	130.0MV		260.0MV
409	5	126.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	138.0MV		260.0MV
427	12	146.0MV		260.0MV
433	14	132.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	132.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.980 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.850 V	5.480 V	
281	5	5.850 V	5.480 V	
287	7	5.830 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	148.0MV		260.0MV
409	5	144.0MV		260.0MV
415	7	158.0MV		260.0MV
421	9	156.0MV		260.0MV
427	12	170.0MV		260.0MV
433	14	150.0MV		260.0MV
439	16	144.0MV		260.0MV
445	18	152.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-4.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	4.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-6.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	5.000NA		4.000UA
679	20	-6.000NA		4.000UA

```

EIR 1.....10      FCT      DCT
      0000000000    PASS      PASS      EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 9

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-670.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	32.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.870 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.870 V	2.480 V	
299	12	2.860 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	32.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	110.0MV		260.0MV
409	5	110.0MV		260.0MV
415	7	116.0MV		260.0MV
421	9	116.0MV		260.0MV
427	12	122.0MV		260.0MV
433	14	110.0MV		260.0MV
439	16	106.0MV		260.0MV
445	18	112.0MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.320 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.320 V	3.980 V	
317	18	4.340 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		260.0MV
409	5	130.0MV		260.0MV
415	7	142.0MV		260.0MV
421	9	140.0MV		260.0MV
427	12	150.0MV		260.0MV
433	14	132.0MV		260.0MV
439	16	128.0MV		260.0MV
445	18	134.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.810 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.840 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	56.00MV		100.0MV
344	5	56.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	54.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	56.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	156.0MV		260.0MV
409	5	150.0MV		260.0MV
415	7	164.0MV		260.0MV
421	9	158.0MV		260.0MV
427	12	174.0MV		260.0MV
433	14	152.0MV		260.0MV
439	16	148.0MV		260.0MV
445	18	156.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	2.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-6.000UA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 10

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	460.0MV	100.0MV	1.500 V
68	5	460.0MV	100.0MV	1.500 V
68	7	460.0MV	100.0MV	1.500 V
68	9	460.0MV	100.0MV	1.500 V
68	12	460.0MV	100.0MV	1.500 V
68	14	460.0MV	100.0MV	1.500 V
68	16	460.0MV	100.0MV	1.500 V
68	18	450.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	32.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	108.0MV		260.0MV
409	5	106.0MV		260.0MV
415	7	114.0MV		260.0MV
421	9	114.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	106.0MV		260.0MV
439	16	102.0MV		260.0MV
445	18	108.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.460 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.320 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	130.0MV		260.0MV
409	5	126.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	134.0MV		260.0MV
427	12	146.0MV		260.0MV
433	14	126.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	128.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.830 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	54.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	54.00MV		100.0MV
368	14	54.00MV		100.0MV
374	16	54.00MV		100.0MV
380	18	54.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	150.0MV		260.0MV
409	5	144.0MV		260.0MV
415	7	158.0MV		260.0MV
421	9	154.0MV		260.0MV
427	12	168.0MV		260.0MV
433	14	146.0MV		260.0MV
439	16	142.0MV		260.0MV
445	18	150.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	2.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-6.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	3.000NA	-100.0NA	100.0NA
637	18	-6.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	8.000NA		4.000UA
679	20	-3.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 11

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-670.0MV	-1.500 V	-100.0MV
58	4	-670.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-670.0MV	-1.500 V	-100.0MV
58	11	-670.0MV	-1.500 V	-100.0MV
58	13	-670.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	480.0MV	100.0MV	1.500 V
68	5	480.0MV	100.0MV	1.500 V
68	7	480.0MV	100.0MV	1.500 V
68	9	480.0MV	100.0MV	1.500 V
68	12	480.0MV	100.0MV	1.500 V
68	14	480.0MV	100.0MV	1.500 V
68	16	480.0MV	100.0MV	1.500 V
68	18	470.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	32.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.860 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.870 V	2.480 V	
311	16	2.870 V	2.480 V	
317	18	2.890 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	108.0MV		260.0MV
409	5	108.0MV		260.0MV
415	7	112.0MV		260.0MV
421	9	114.0MV		260.0MV
427	12	120.0MV		260.0MV
433	14	106.0MV		260.0MV
439	16	104.0MV		260.0MV
445	18	110.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.460 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.320 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	128.0MV		260.0MV
409	5	126.0MV		260.0MV
415	7	138.0MV		260.0MV
421	9	136.0MV		260.0MV
427	12	148.0MV		260.0MV
433	14	126.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	130.0MV		260.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.830 V	5.480 V	
311	16	5.830 V	5.480 V	
317	18	5.850 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	148.0MV		260.0MV
409	5	144.0MV		260.0MV
415	7	156.0MV		260.0MV
421	9	152.0MV		260.0MV
427	12	168.0MV		260.0MV
433	14	144.0MV		260.0MV
439	16	140.0MV		260.0MV
445	18	150.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-3.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	3.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	2.000NA	-100.0NA	100.0NA
532	15	-5.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-5.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	2.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	3.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	2.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-7.000NA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 12

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +25C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-660.0MV	-1.500 V	-100.0MV
58	2	-660.0MV	-1.500 V	-100.0MV
58	4	-660.0MV	-1.500 V	-100.0MV
58	6	-660.0MV	-1.500 V	-100.0MV
58	8	-660.0MV	-1.500 V	-100.0MV
58	11	-660.0MV	-1.500 V	-100.0MV
58	13	-660.0MV	-1.500 V	-100.0MV
58	15	-660.0MV	-1.500 V	-100.0MV
58	17	-660.0MV	-1.500 V	-100.0MV
58	19	-660.0MV	-1.500 V	-100.0MV
68	3	470.0MV	100.0MV	1.500 V
68	5	470.0MV	100.0MV	1.500 V
68	7	470.0MV	100.0MV	1.500 V
68	9	470.0MV	100.0MV	1.500 V
68	12	470.0MV	100.0MV	1.500 V
68	14	470.0MV	100.0MV	1.500 V
68	16	470.0MV	100.0MV	1.500 V
68	18	460.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.880 V	2.480 V	
281	5	2.870 V	2.480 V	
287	7	2.870 V	2.480 V	
293	9	2.880 V	2.480 V	
299	12	2.870 V	2.480 V	
305	14	2.880 V	2.480 V	
311	16	2.880 V	2.480 V	
317	18	2.880 V	2.480 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	112.0MV		260.0MV
409	5	108.0MV		260.0MV
415	7	112.0MV		260.0MV
421	9	112.0MV		260.0MV
427	12	118.0MV		260.0MV
433	14	106.0MV		260.0MV
439	16	106.0MV		260.0MV
445	18	114.0MV		260.0MV

FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.460 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.460 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.980

INST #	PIN	MEASURED	LT	GT
275	3	4.330 V	3.980 V	
281	5	4.330 V	3.980 V	
287	7	4.320 V	3.980 V	
293	9	4.330 V	3.980 V	
299	12	4.310 V	3.980 V	
305	14	4.330 V	3.980 V	
311	16	4.330 V	3.980 V	
317	18	4.340 V	3.980 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	38.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 260.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		260.0MV
409	5	128.0MV		260.0MV
415	7	136.0MV		260.0MV
421	9	134.0MV		260.0MV
427	12	144.0MV		260.0MV
433	14	126.0MV		260.0MV
439	16	124.0MV		260.0MV
445	18	134.0MV		260.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.480
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.840 V	5.480 V	
281	5	5.830 V	5.480 V	
287	7	5.820 V	5.480 V	
293	9	5.840 V	5.480 V	
299	12	5.820 V	5.480 V	
305	14	5.840 V	5.480 V	
311	16	5.840 V	5.480 V	
317	18	5.840 V	5.480 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  260.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	150.0MV		260.0MV
409	5	144.0MV		260.0MV
415	7	156.0MV		260.0MV
421	9	150.0MV		260.0MV
427	12	166.0MV		260.0MV
433	14	144.0MV		260.0MV
439	16	140.0MV		260.0MV
445	18	152.0MV		260.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-100.0NA	100.0NA
479	1	3.000NA	-100.0NA	100.0NA
484	2	-5.000NA	-100.0NA	100.0NA
487	2	3.000NA	-100.0NA	100.0NA
492	4	-5.000NA	-100.0NA	100.0NA
495	4	3.000NA	-100.0NA	100.0NA
500	6	-5.000NA	-100.0NA	100.0NA
503	6	3.000NA	-100.0NA	100.0NA
508	8	-5.000NA	-100.0NA	100.0NA
511	8	3.000NA	-100.0NA	100.0NA
516	11	-5.000NA	-100.0NA	100.0NA
519	11	2.000NA	-100.0NA	100.0NA
524	13	-5.000NA	-100.0NA	100.0NA
527	13	3.000NA	-100.0NA	100.0NA
532	15	-6.000NA	-100.0NA	100.0NA
535	15	3.000NA	-100.0NA	100.0NA
540	17	-5.000NA	-100.0NA	100.0NA
543	17	2.000NA	-100.0NA	100.0NA
548	19	-5.000NA	-100.0NA	100.0NA
551	19	2.000NA	-100.0NA	100.0NA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-4.000NA	-100.0NA	100.0NA
581	3	3.000NA	-100.0NA	100.0NA
586	5	-6.000NA	-100.0NA	100.0NA
589	5	3.000NA	-100.0NA	100.0NA
594	7	-6.000NA	-100.0NA	100.0NA
597	7	3.000NA	-100.0NA	100.0NA
602	9	-6.000NA	-100.0NA	100.0NA
605	9	3.000NA	-100.0NA	100.0NA
613	12	-5.000NA	-100.0NA	100.0NA
616	12	2.000NA	-100.0NA	100.0NA
621	14	-6.000NA	-100.0NA	100.0NA
624	14	3.000NA	-100.0NA	100.0NA
629	16	-6.000NA	-100.0NA	100.0NA
632	16	2.000NA	-100.0NA	100.0NA
637	18	-5.000NA	-100.0NA	100.0NA
640	18	2.000NA	-100.0NA	100.0NA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	4.000UA		4.000UA
679	20	-6.000UA		4.000UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Post Burn-In Test Results at +125°C



STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 1

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-540.0MV	-1.500 V	-100.0MV
58	2	-550.0MV	-1.500 V	-100.0MV
58	4	-540.0MV	-1.500 V	-100.0MV
58	6	-540.0MV	-1.500 V	-100.0MV
58	8	-540.0MV	-1.500 V	-100.0MV
58	11	-540.0MV	-1.500 V	-100.0MV
58	13	-540.0MV	-1.500 V	-100.0MV
58	15	-540.0MV	-1.500 V	-100.0MV
58	17	-540.0MV	-1.500 V	-100.0MV
58	19	-540.0MV	-1.500 V	-100.0MV
68	3	330.0MV	100.0MV	1.500 V
68	5	340.0MV	100.0MV	1.500 V
68	7	340.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	320.0MV	100.0MV	1.500 V
68	14	340.0MV	100.0MV	1.500 V
68	16	330.0MV	100.0MV	1.500 V
68	18	320.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

FUNCTIONAL TEST

VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.830 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	36.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		400.0MV
409	5	132.0MV		400.0MV
415	7	138.0MV		400.0MV
421	9	152.0MV		400.0MV
427	12	146.0MV		400.0MV
433	14	132.0MV		400.0MV
439	16	132.0MV		400.0MV
445	18	136.0MV		400.0MV

FUNCTIONAL TEST

VCC= 4.500
VIH= 3.150 VIL= 1.350

VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.280 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.310 V	3.700 V	

VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	42.00MV		100.0MV

VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	162.0MV		400.0MV
409	5	158.0MV		400.0MV
415	7	168.0MV		400.0MV
421	9	186.0MV		400.0MV
427	12	176.0MV		400.0MV
433	14	160.0MV		400.0MV
439	16	158.0MV		400.0MV
445	18	164.0MV		400.0MV

FUNCTIONAL TEST

VCC= 6
VIH= 4.200 VIL= 1.800

VOH1 TEST
VCC= 6
VOH LIMIT 5.900

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

VOH2 TEST
VCC= 6
VOH2 LIMIT 5.200

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.780 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

VOL1 TEST
VCC= 6
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	52.00MV		100.0MV

VOL2 TEST
VCC= 6
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	180.0MV		400.0MV
409	5	174.0MV		400.0MV
415	7	188.0MV		400.0MV
421	9	210.0MV		400.0MV
427	12	198.0MV		400.0MV
433	14	180.0MV		400.0MV
439	16	178.0MV		400.0MV
445	18	182.0MV		400.0MV

IIN TEST

VCC= 6
 IIL/IIH LIMIT +- 0.1UA @25C/-55C
 IIL/IIH LIMIT +- 1.0UA @+125C

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	5.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	16.00NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-5.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-5.000NA	-1.000UA	1.000UA
511	8	3.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-6.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-5.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-5.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

IOZ TEST
 VCC= 6
 IOZ LIMIT +- 0.5UA @25C/-55C
 IOZ LIMIT +- 10UA @+125C

INST #	PIN	MEASURED	LT	GT
578	3	-149.0NA	-1.000UA	1.000UA
581	3	46.00NA	-1.000UA	1.000UA
586	5	-132.0NA	-1.000UA	1.000UA
589	5	33.00NA	-1.000UA	1.000UA
594	7	-120.0NA	-1.000UA	1.000UA
597	7	30.00NA	-1.000UA	1.000UA
602	9	-147.0NA	-1.000UA	1.000UA
605	9	30.00NA	-1.000UA	1.000UA
613	12	-185.0NA	-1.000UA	1.000UA
616	12	32.00NA	-1.000UA	1.000UA
621	14	-143.0NA	-1.000UA	1.000UA
624	14	34.00NA	-1.000UA	1.000UA
629	16	-159.0NA	-1.000UA	1.000UA
632	16	35.00NA	-1.000UA	1.000UA
637	18	-225.0NA	-1.000UA	1.000UA
640	18	35.00NA	-1.000UA	1.000UA

ICC TEST
 VCC= 6
 ICC LIMIT MAX. 4.0UA @25C/-55C
 ICC LIMIT MAX. 160UA @+125C

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

EIR 1.....10 FCT DCT
 000000000 PASS PASS EOT

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 2

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-480.0MV	-1.500 V	-100.0MV
58	2	-480.0MV	-1.500 V	-100.0MV
58	4	-480.0MV	-1.500 V	-100.0MV
58	6	-480.0MV	-1.500 V	-100.0MV
58	8	-480.0MV	-1.500 V	-100.0MV
58	11	-480.0MV	-1.500 V	-100.0MV
58	13	-480.0MV	-1.500 V	-100.0MV
58	15	-480.0MV	-1.500 V	-100.0MV
58	17	-480.0MV	-1.500 V	-100.0MV
58	19	-480.0MV	-1.500 V	-100.0MV
68	3	280.0MV	100.0MV	1.500 V
68	5	290.0MV	100.0MV	1.500 V
68	7	300.0MV	100.0MV	1.500 V
68	9	290.0MV	100.0MV	1.500 V
68	12	290.0MV	100.0MV	1.500 V
68	14	290.0MV	100.0MV	1.500 V
68	16	290.0MV	100.0MV	1.500 V
68	18	280.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.840 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.830 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.840 V	2.200 V	
317	18	2.850 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	140.0MV		400.0MV
409	5	140.0MV		400.0MV
415	7	146.0MV		400.0MV
421	9	164.0MV		400.0MV
427	12	154.0MV		400.0MV
433	14	144.0MV		400.0MV
439	16	140.0MV		400.0MV
445	18	148.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.270 V	3.700 V	
305	14	4.280 V	3.700 V	
311	16	4.280 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	38.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	38.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	168.0MV		400.0MV
409	5	166.0MV		400.0MV
415	7	176.0MV		400.0MV
421	9	200.0MV		400.0MV
427	12	186.0MV		400.0MV
433	14	172.0MV		400.0MV
439	16	166.0MV		400.0MV
445	18	174.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.790 V	5.200 V	
287	7	5.790 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	48.00MV		100.0MV
380	18	48.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	186.0MV		400.0MV
409	5	182.0MV		400.0MV
415	7	194.0MV		400.0MV
421	9	222.0MV		400.0MV
427	12	204.0MV		400.0MV
433	14	188.0MV		400.0MV
439	16	184.0MV		400.0MV
445	18	190.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	19.000NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-6.000NA	-1.000UA	1.000UA
511	8	4.000NA	-1.000UA	1.000UA
516	11	-6.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-6.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-6.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-280.0NA	-1.000UA	1.000UA
581	3	67.00NA	-1.000UA	1.000UA
586	5	-244.0NA	-1.000UA	1.000UA
589	5	49.00NA	-1.000UA	1.000UA
594	7	-223.0NA	-1.000UA	1.000UA
597	7	48.00NA	-1.000UA	1.000UA
602	9	-259.0NA	-1.000UA	1.000UA
605	9	45.00NA	-1.000UA	1.000UA
613	12	-249.0NA	-1.000UA	1.000UA
616	12	45.00NA	-1.000UA	1.000UA
621	14	-228.0NA	-1.000UA	1.000UA
624	14	48.00NA	-1.000UA	1.000UA
629	16	-224.0NA	-1.000UA	1.000UA
632	16	49.00NA	-1.000UA	1.000UA
637	18	-370.0NA	-1.000UA	1.000UA
640	18	50.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 3

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-540.0MV	-1.500 V	-100.0MV
58	2	-530.0MV	-1.500 V	-100.0MV
58	4	-530.0MV	-1.500 V	-100.0MV
58	6	-530.0MV	-1.500 V	-100.0MV
58	8	-530.0MV	-1.500 V	-100.0MV
58	11	-530.0MV	-1.500 V	-100.0MV
58	13	-530.0MV	-1.500 V	-100.0MV
58	15	-530.0MV	-1.500 V	-100.0MV
58	17	-530.0MV	-1.500 V	-100.0MV
58	19	-530.0MV	-1.500 V	-100.0MV
68	3	320.0MV	100.0MV	1.500 V
68	5	320.0MV	100.0MV	1.500 V
68	7	320.0MV	100.0MV	1.500 V
68	9	310.0MV	100.0MV	1.500 V
68	12	310.0MV	100.0MV	1.500 V
68	14	310.0MV	100.0MV	1.500 V
68	16	310.0MV	100.0MV	1.500 V
68	18	300.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.970 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.970 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.840 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.840 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.840 V	2.200 V	
317	18	2.850 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	38.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		400.0MV
409	5	134.0MV		400.0MV
415	7	140.0MV		400.0MV
421	9	150.0MV		400.0MV
427	12	142.0MV		400.0MV
433	14	134.0MV		400.0MV
439	16	134.0MV		400.0MV
445	18	140.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	168.0MV		400.0MV
409	5	162.0MV		400.0MV
415	7	168.0MV		400.0MV
421	9	188.0MV		400.0MV
427	12	174.0MV		400.0MV
433	14	162.0MV		400.0MV
439	16	162.0MV		400.0MV
445	18	168.0MV		400.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.790 V	5.200 V	
281	5	5.790 V	5.200 V	
287	7	5.780 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.800 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	190.0MV		400.0MV
409	5	180.0MV		400.0MV
415	7	190.0MV		400.0MV
421	9	210.0MV		400.0MV
427	12	196.0MV		400.0MV
433	14	180.0MV		400.0MV
439	16	182.0MV		400.0MV
445	18	188.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	20.00NA	-1.000UA	1.000UA
492	4	-5.000NA	-1.000UA	1.000UA
495	4	5.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-5.000NA	-1.000UA	1.000UA
511	8	4.000NA	-1.000UA	1.000UA
516	11	-6.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-5.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-5.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-216.0NA	-1.000UA	1.000UA
581	3	66.00NA	-1.000UA	1.000UA
586	5	-222.0NA	-1.000UA	1.000UA
589	5	53.00NA	-1.000UA	1.000UA
594	7	-242.0NA	-1.000UA	1.000UA
597	7	53.00NA	-1.000UA	1.000UA
602	9	-295.0NA	-1.000UA	1.000UA
605	9	56.00NA	-1.000UA	1.000UA
613	12	-383.0NA	-1.000UA	1.000UA
616	12	60.00NA	-1.000UA	1.000UA
621	14	-330.0NA	-1.000UA	1.000UA
624	14	64.00NA	-1.000UA	1.000UA
629	16	-306.0NA	-1.000UA	1.000UA
632	16	59.00NA	-1.000UA	1.000UA
637	18	-314.0NA	-1.000UA	1.000UA
640	18	57.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 4

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-520.0MV	-1.500 V	-100.0MV
58	2	-520.0MV	-1.500 V	-100.0MV
58	4	-520.0MV	-1.500 V	-100.0MV
58	6	-520.0MV	-1.500 V	-100.0MV
58	8	-520.0MV	-1.500 V	-100.0MV
58	11	-520.0MV	-1.500 V	-100.0MV
58	13	-520.0MV	-1.500 V	-100.0MV
58	15	-520.0MV	-1.500 V	-100.0MV
58	17	-520.0MV	-1.500 V	-100.0MV
58	19	-520.0MV	-1.500 V	-100.0MV
68	3	330.0MV	100.0MV	1.500 V
68	5	330.0MV	100.0MV	1.500 V
68	7	330.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	330.0MV	100.0MV	1.500 V
68	14	330.0MV	100.0MV	1.500 V
68	16	330.0MV	100.0MV	1.500 V
68	18	320.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	32.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.830 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.850 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	140.0MV		400.0MV
409	5	136.0MV		400.0MV
415	7	144.0MV		400.0MV
421	9	156.0MV		400.0MV
427	12	148.0MV		400.0MV
433	14	140.0MV		400.0MV
439	16	140.0MV		400.0MV
445	18	144.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.460 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.300 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.290 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	170.0MV		400.0MV
409	5	162.0MV		400.0MV
415	7	172.0MV		400.0MV
421	9	192.0MV		400.0MV
427	12	178.0MV		400.0MV
433	14	168.0MV		400.0MV
439	16	168.0MV		400.0MV
445	18	174.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.790 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	48.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	188.0MV		400.0MV
409	5	180.0MV		400.0MV
415	7	192.0MV		400.0MV
421	9	214.0MV		400.0MV
427	12	198.0MV		400.0MV
433	14	188.0MV		400.0MV
439	16	186.0MV		400.0MV
445	18	192.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	20.00NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	5.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-6.000NA	-1.000UA	1.000UA
511	8	4.000NA	-1.000UA	1.000UA
516	11	-6.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-5.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-5.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-202.0NA	-1.000UA	1.000UA
581	3	58.00NA	-1.000UA	1.000UA
586	5	-218.0NA	-1.000UA	1.000UA
589	5	46.00NA	-1.000UA	1.000UA
594	7	-214.0NA	-1.000UA	1.000UA
597	7	43.00NA	-1.000UA	1.000UA
602	9	-250.0NA	-1.000UA	1.000UA
605	9	45.00NA	-1.000UA	1.000UA
613	12	-287.0NA	-1.000UA	1.000UA
616	12	45.00NA	-1.000UA	1.000UA
621	14	-260.0NA	-1.000UA	1.000UA
624	14	46.00NA	-1.000UA	1.000UA
629	16	-236.0NA	-1.000UA	1.000UA
632	16	44.00NA	-1.000UA	1.000UA
637	18	-271.0NA	-1.000UA	1.000UA
640	18	44.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 5

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-530.0MV	-1.500 V	-100.0MV
58	2	-530.0MV	-1.500 V	-100.0MV
58	4	-530.0MV	-1.500 V	-100.0MV
58	6	-530.0MV	-1.500 V	-100.0MV
58	8	-530.0MV	-1.500 V	-100.0MV
58	11	-530.0MV	-1.500 V	-100.0MV
58	13	-530.0MV	-1.500 V	-100.0MV
58	15	-530.0MV	-1.500 V	-100.0MV
58	17	-530.0MV	-1.500 V	-100.0MV
58	19	-530.0MV	-1.500 V	-100.0MV
68	3	340.0MV	100.0MV	1.500 V
68	5	340.0MV	100.0MV	1.500 V
68	7	340.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	330.0MV	100.0MV	1.500 V
68	14	340.0MV	100.0MV	1.500 V
68	16	330.0MV	100.0MV	1.500 V
68	18	320.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV


```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.970 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.840 V	2.200 V	
281	5	2.840 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.830 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.840 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	136.0MV		400.0MV
409	5	134.0MV		400.0MV
415	7	138.0MV		400.0MV
421	9	150.0MV		400.0MV
427	12	146.0MV		400.0MV
433	14	136.0MV		400.0MV
439	16	134.0MV		400.0MV
445	18	140.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.280 V	3.700 V	
311	16	4.280 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	164.0MV		400.0MV
409	5	160.0MV		400.0MV
415	7	168.0MV		400.0MV
421	9	186.0MV		400.0MV
427	12	178.0MV		400.0MV
433	14	164.0MV		400.0MV
439	16	162.0MV		400.0MV
445	18	168.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.790 V	5.200 V	
287	7	5.780 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.780 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	46.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	186.0MV		400.0MV
409	5	178.0MV		400.0MV
415	7	186.0MV		400.0MV
421	9	210.0MV		400.0MV
427	12	200.0MV		400.0MV
433	14	182.0MV		400.0MV
439	16	180.0MV		400.0MV
445	18	186.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	19.000NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	5.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-5.000NA	-1.000UA	1.000UA
511	8	4.000NA	-1.000UA	1.000UA
516	11	-6.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-5.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-6.000NA	-1.000UA	1.000UA
551	19	3.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-158.0NA	-1.000UA	1.000UA
581	3	56.00NA	-1.000UA	1.000UA
586	5	-166.0NA	-1.000UA	1.000UA
589	5	41.00NA	-1.000UA	1.000UA
594	7	-180.0NA	-1.000UA	1.000UA
597	7	43.00NA	-1.000UA	1.000UA
602	9	-229.0NA	-1.000UA	1.000UA
605	9	41.00NA	-1.000UA	1.000UA
613	12	-245.0NA	-1.000UA	1.000UA
616	12	42.00NA	-1.000UA	1.000UA
621	14	-190.0NA	-1.000UA	1.000UA
624	14	44.00NA	-1.000UA	1.000UA
629	16	-202.0NA	-1.000UA	1.000UA
632	16	45.00NA	-1.000UA	1.000UA
637	18	-266.0NA	-1.000UA	1.000UA
640	18	43.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10      FCT      DCT
0000000000      PASS      PASS      EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 6

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-530.0MV	-1.500 V	-100.0MV
58	2	-520.0MV	-1.500 V	-100.0MV
58	4	-520.0MV	-1.500 V	-100.0MV
58	6	-520.0MV	-1.500 V	-100.0MV
58	8	-520.0MV	-1.500 V	-100.0MV
58	11	-520.0MV	-1.500 V	-100.0MV
58	13	-520.0MV	-1.500 V	-100.0MV
58	15	-520.0MV	-1.500 V	-100.0MV
58	17	-520.0MV	-1.500 V	-100.0MV
58	19	-520.0MV	-1.500 V	-100.0MV
68	3	330.0MV	100.0MV	1.500 V
68	5	330.0MV	100.0MV	1.500 V
68	7	330.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	320.0MV	100.0MV	1.500 V
68	14	330.0MV	100.0MV	1.500 V
68	16	330.0MV	100.0MV	1.500 V
68	18	310.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	32.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.840 V	2.200 V	
281	5	2.840 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.830 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.840 V	2.200 V	
317	18	2.850 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		400.0MV
409	5	138.0MV		400.0MV
415	7	140.0MV		400.0MV
421	9	156.0MV		400.0MV
427	12	150.0MV		400.0MV
433	14	140.0MV		400.0MV
439	16	136.0MV		400.0MV
445	18	142.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.280 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.270 V	3.700 V	
305	14	4.280 V	3.700 V	
311	16	4.280 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	168.0MV		400.0MV
409	5	166.0MV		400.0MV
415	7	168.0MV		400.0MV
421	9	192.0MV		400.0MV
427	12	182.0MV		400.0MV
433	14	166.0MV		400.0MV
439	16	164.0MV		400.0MV
445	18	170.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.790 V	5.200 V	
281	5	5.790 V	5.200 V	
287	7	5.780 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.770 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.800 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	186.0MV		400.0MV
409	5	180.0MV		400.0MV
415	7	190.0MV		400.0MV
421	9	214.0MV		400.0MV
427	12	202.0MV		400.0MV
433	14	186.0MV		400.0MV
439	16	184.0MV		400.0MV
445	18	190.0MV		400.0MV


```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	20.00NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	5.000NA	-1.000UA	1.000UA
500	6	-5.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-6.000NA	-1.000UA	1.000UA
511	8	4.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-6.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-5.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-181.0NA	-1.000UA	1.000UA
581	3	58.00NA	-1.000UA	1.000UA
586	5	-189.0NA	-1.000UA	1.000UA
589	5	45.00NA	-1.000UA	1.000UA
594	7	-198.0NA	-1.000UA	1.000UA
597	7	46.00NA	-1.000UA	1.000UA
602	9	-241.0NA	-1.000UA	1.000UA
605	9	45.00NA	-1.000UA	1.000UA
613	12	-237.0NA	-1.000UA	1.000UA
616	12	44.00NA	-1.000UA	1.000UA
621	14	-210.0NA	-1.000UA	1.000UA
624	14	47.00NA	-1.000UA	1.000UA
629	16	-216.0NA	-1.000UA	1.000UA
632	16	48.00NA	-1.000UA	1.000UA
637	18	-297.0NA	-1.000UA	1.000UA
640	18	47.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 7

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-530.0MV	-1.500 V	-100.0MV
58	2	-530.0MV	-1.500 V	-100.0MV
58	4	-530.0MV	-1.500 V	-100.0MV
58	6	-530.0MV	-1.500 V	-100.0MV
58	8	-530.0MV	-1.500 V	-100.0MV
58	11	-530.0MV	-1.500 V	-100.0MV
58	13	-530.0MV	-1.500 V	-100.0MV
58	15	-530.0MV	-1.500 V	-100.0MV
58	17	-520.0MV	-1.500 V	-100.0MV
58	19	-520.0MV	-1.500 V	-100.0MV
68	3	340.0MV	100.0MV	1.500 V
68	5	340.0MV	100.0MV	1.500 V
68	7	330.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	320.0MV	100.0MV	1.500 V
68	14	330.0MV	100.0MV	1.500 V
68	16	320.0MV	100.0MV	1.500 V
68	18	320.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.840 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		400.0MV
409	5	130.0MV		400.0MV
415	7	134.0MV		400.0MV
421	9	146.0MV		400.0MV
427	12	140.0MV		400.0MV
433	14	130.0MV		400.0MV
439	16	130.0MV		400.0MV
445	18	138.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.290 V	3.700 V	
293	9	4.280 V	3.700 V	
299	12	4.290 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	38.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	162.0MV		400.0MV
409	5	156.0MV		400.0MV
415	7	160.0MV		400.0MV
421	9	180.0MV		400.0MV
427	12	170.0MV		400.0MV
433	14	158.0MV		400.0MV
439	16	156.0MV		400.0MV
445	18	166.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.790 V	5.200 V	
293	9	5.780 V	5.200 V	
299	12	5.790 V	5.200 V	
305	14	5.800 V	5.200 V	
311	16	5.800 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	48.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	182.0MV		400.0MV
409	5	174.0MV		400.0MV
415	7	180.0MV		400.0MV
421	9	204.0MV		400.0MV
427	12	192.0MV		400.0MV
433	14	176.0MV		400.0MV
439	16	176.0MV		400.0MV
445	18	184.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	16.000NA	-1.000UA	1.000UA
492	4	-5.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-5.000NA	-1.000UA	1.000UA
511	8	3.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-5.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-6.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-121.0NA	-1.000UA	1.000UA
581	3	41.00NA	-1.000UA	1.000UA
586	5	-140.0NA	-1.000UA	1.000UA
589	5	32.00NA	-1.000UA	1.000UA
594	7	-154.0NA	-1.000UA	1.000UA
597	7	33.00NA	-1.000UA	1.000UA
602	9	-200.0NA	-1.000UA	1.000UA
605	9	33.00NA	-1.000UA	1.000UA
613	12	-233.0NA	-1.000UA	1.000UA
616	12	34.00NA	-1.000UA	1.000UA
621	14	-198.0NA	-1.000UA	1.000UA
624	14	38.00NA	-1.000UA	1.000UA
629	16	-205.0NA	-1.000UA	1.000UA
632	16	38.00NA	-1.000UA	1.000UA
637	18	-217.0NA	-1.000UA	1.000UA
640	18	33.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 8

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-530.0MV	-1.500 V	-100.0MV
58	2	-530.0MV	-1.500 V	-100.0MV
58	4	-530.0MV	-1.500 V	-100.0MV
58	6	-530.0MV	-1.500 V	-100.0MV
58	8	-530.0MV	-1.500 V	-100.0MV
58	11	-530.0MV	-1.500 V	-100.0MV
58	13	-530.0MV	-1.500 V	-100.0MV
58	15	-530.0MV	-1.500 V	-100.0MV
58	17	-530.0MV	-1.500 V	-100.0MV
58	19	-530.0MV	-1.500 V	-100.0MV
68	3	330.0MV	100.0MV	1.500 V
68	5	330.0MV	100.0MV	1.500 V
68	7	330.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	330.0MV	100.0MV	1.500 V
68	14	330.0MV	100.0MV	1.500 V
68	16	320.0MV	100.0MV	1.500 V
68	18	310.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.970 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT  2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.860 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.850 V	2.200 V	
293	9	2.840 V	2.200 V	
299	12	2.850 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		400.0MV
409	5	132.0MV		400.0MV
415	7	138.0MV		400.0MV
421	9	152.0MV		400.0MV
427	12	148.0MV		400.0MV
433	14	138.0MV		400.0MV
439	16	134.0MV		400.0MV
445	18	136.0MV		400.0MV


```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.300 V	3.700 V	
281	5	4.300 V	3.700 V	
287	7	4.290 V	3.700 V	
293	9	4.280 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.310 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	160.0MV		400.0MV
409	5	158.0MV		400.0MV
415	7	166.0MV		400.0MV
421	9	188.0MV		400.0MV
427	12	178.0MV		400.0MV
433	14	166.0MV		400.0MV
439	16	160.0MV		400.0MV
445	18	166.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.810 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.790 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	50.00MV		100.0MV
350	7	48.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	178.0MV		400.0MV
409	5	174.0MV		400.0MV
415	7	186.0MV		400.0MV
421	9	210.0MV		400.0MV
427	12	198.0MV		400.0MV
433	14	184.0MV		400.0MV
439	16	180.0MV		400.0MV
445	18	182.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	17.000NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-5.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-5.000NA	-1.000UA	1.000UA
511	8	4.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-6.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-6.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-272.0NA	-1.000UA	1.000UA
581	3	58.00NA	-1.000UA	1.000UA
586	5	-242.0NA	-1.000UA	1.000UA
589	5	43.00NA	-1.000UA	1.000UA
594	7	-237.0NA	-1.000UA	1.000UA
597	7	43.00NA	-1.000UA	1.000UA
602	9	-268.0NA	-1.000UA	1.000UA
605	9	41.00NA	-1.000UA	1.000UA
613	12	-259.0NA	-1.000UA	1.000UA
616	12	40.00NA	-1.000UA	1.000UA
621	14	-222.0NA	-1.000UA	1.000UA
624	14	40.00NA	-1.000UA	1.000UA
629	16	-266.0NA	-1.000UA	1.000UA
632	16	46.00NA	-1.000UA	1.000UA
637	18	-341.0NA	-1.000UA	1.000UA
640	18	45.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 9

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-520.0MV	-1.500 V	-100.0MV
58	2	-520.0MV	-1.500 V	-100.0MV
58	4	-520.0MV	-1.500 V	-100.0MV
58	6	-520.0MV	-1.500 V	-100.0MV
58	8	-520.0MV	-1.500 V	-100.0MV
58	11	-520.0MV	-1.500 V	-100.0MV
58	13	-520.0MV	-1.500 V	-100.0MV
58	15	-520.0MV	-1.500 V	-100.0MV
58	17	-510.0MV	-1.500 V	-100.0MV
58	19	-520.0MV	-1.500 V	-100.0MV
68	3	320.0MV	100.0MV	1.500 V
68	5	320.0MV	100.0MV	1.500 V
68	7	320.0MV	100.0MV	1.500 V
68	9	320.0MV	100.0MV	1.500 V
68	12	310.0MV	100.0MV	1.500 V
68	14	320.0MV	100.0MV	1.500 V
68	16	320.0MV	100.0MV	1.500 V
68	18	300.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.970 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.840 V	2.200 V	
281	5	2.840 V	2.200 V	
287	7	2.830 V	2.200 V	
293	9	2.830 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.840 V	2.200 V	
317	18	2.850 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	138.0MV		400.0MV
409	5	136.0MV		400.0MV
415	7	142.0MV		400.0MV
421	9	152.0MV		400.0MV
427	12	146.0MV		400.0MV
433	14	138.0MV		400.0MV
439	16	136.0MV		400.0MV
445	18	140.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.280 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.280 V	3.700 V	
311	16	4.280 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	40.00MV		100.0MV
350	7	40.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	168.0MV		400.0MV
409	5	162.0MV		400.0MV
415	7	170.0MV		400.0MV
421	9	188.0MV		400.0MV
427	12	178.0MV		400.0MV
433	14	164.0MV		400.0MV
439	16	164.0MV		400.0MV
445	18	168.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.790 V	5.200 V	
287	7	5.780 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.800 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	50.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	186.0MV		400.0MV
409	5	180.0MV		400.0MV
415	7	190.0MV		400.0MV
421	9	212.0MV		400.0MV
427	12	200.0MV		400.0MV
433	14	184.0MV		400.0MV
439	16	182.0MV		400.0MV
445	18	188.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	17.000NA	-1.000UA	1.000UA
492	4	-5.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-5.000NA	-1.000UA	1.000UA
511	8	3.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-5.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-6.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-6.000NA	-1.000UA	1.000UA
551	19	3.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-157.0NA	-1.000UA	1.000UA
581	3	52.00NA	-1.000UA	1.000UA
586	5	-165.0NA	-1.000UA	1.000UA
589	5	40.00NA	-1.000UA	1.000UA
594	7	-160.0NA	-1.000UA	1.000UA
597	7	39.00NA	-1.000UA	1.000UA
602	9	-185.0NA	-1.000UA	1.000UA
605	9	38.00NA	-1.000UA	1.000UA
613	12	-219.0NA	-1.000UA	1.000UA
616	12	41.00NA	-1.000UA	1.000UA
621	14	-180.0NA	-1.000UA	1.000UA
624	14	42.00NA	-1.000UA	1.000UA
629	16	-188.0NA	-1.000UA	1.000UA
632	16	42.00NA	-1.000UA	1.000UA
637	18	-258.0NA	-1.000UA	1.000UA
640	18	44.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```


STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 10

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-530.0MV	-1.500 V	-100.0MV
58	2	-530.0MV	-1.500 V	-100.0MV
58	4	-530.0MV	-1.500 V	-100.0MV
58	6	-530.0MV	-1.500 V	-100.0MV
58	8	-530.0MV	-1.500 V	-100.0MV
58	11	-530.0MV	-1.500 V	-100.0MV
58	13	-530.0MV	-1.500 V	-100.0MV
58	15	-530.0MV	-1.500 V	-100.0MV
58	17	-530.0MV	-1.500 V	-100.0MV
58	19	-530.0MV	-1.500 V	-100.0MV
68	3	310.0MV	100.0MV	1.500 V
68	5	320.0MV	100.0MV	1.500 V
68	7	320.0MV	100.0MV	1.500 V
68	9	310.0MV	100.0MV	1.500 V
68	12	310.0MV	100.0MV	1.500 V
68	14	310.0MV	100.0MV	1.500 V
68	16	310.0MV	100.0MV	1.500 V
68	18	300.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.980 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.970 V	1.900 V	
240	14	1.980 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

FUNCTIONAL TEST
VCC= 3
VIH= 2.100 VIL= 900.0E-03

VOH1 TEST
VCC= 3
VOH LIMIT 2.900

INST #	PIN	MEASURED	LT	GT
210	3	2.970 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

VOH2 TEST
VCC= 3
VOH2 LIMIT 2.200

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.850 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.840 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.850 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.860 V	2.200 V	

VOL1 TEST
VCC= 3
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	38.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	34.00MV		100.0MV

VOL2 TEST
VCC= 3
VOL2 LIMIT 400.0E-03

INST #	PIN	MEASURED	LT	GT
403	3	132.0MV		400.0MV
409	5	132.0MV		400.0MV
415	7	138.0MV		400.0MV
421	9	150.0MV		400.0MV
427	12	144.0MV		400.0MV
433	14	132.0MV		400.0MV
439	16	132.0MV		400.0MV
445	18	134.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.300 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.280 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	42.00MV		100.0MV
368	14	42.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	162.0MV		400.0MV
409	5	160.0MV		400.0MV
415	7	168.0MV		400.0MV
421	9	188.0MV		400.0MV
427	12	176.0MV		400.0MV
433	14	162.0MV		400.0MV
439	16	158.0MV		400.0MV
445	18	164.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.790 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	54.00MV		100.0MV
344	5	54.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	52.00MV		100.0MV
362	12	52.00MV		100.0MV
368	14	52.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT  400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	184.0MV		400.0MV
409	5	178.0MV		400.0MV
415	7	190.0MV		400.0MV
421	9	212.0MV		400.0MV
427	12	198.0MV		400.0MV
433	14	182.0MV		400.0MV
439	16	180.0MV		400.0MV
445	18	182.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	18.00NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-6.000NA	-1.000UA	1.000UA
511	8	4.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-6.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-5.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-5.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-314.0NA	-1.000UA	1.000UA
581	3	72.00NA	-1.000UA	1.000UA
586	5	-254.0NA	-1.000UA	1.000UA
589	5	54.00NA	-1.000UA	1.000UA
594	7	-244.0NA	-1.000UA	1.000UA
597	7	53.00NA	-1.000UA	1.000UA
602	9	-314.0NA	-1.000UA	1.000UA
605	9	55.00NA	-1.000UA	1.000UA
613	12	-368.0NA	-1.000UA	1.000UA
616	12	55.00NA	-1.000UA	1.000UA
621	14	-286.0NA	-1.000UA	1.000UA
624	14	57.00NA	-1.000UA	1.000UA
629	16	-319.0NA	-1.000UA	1.000UA
632	16	60.00NA	-1.000UA	1.000UA
637	18	-414.0NA	-1.000UA	1.000UA
640	18	60.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 11

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-520.0MV	-1.500 V	-100.0MV
58	2	-520.0MV	-1.500 V	-100.0MV
58	4	-520.0MV	-1.500 V	-100.0MV
58	6	-520.0MV	-1.500 V	-100.0MV
58	8	-520.0MV	-1.500 V	-100.0MV
58	11	-520.0MV	-1.500 V	-100.0MV
58	13	-520.0MV	-1.500 V	-100.0MV
58	15	-520.0MV	-1.500 V	-100.0MV
58	17	-520.0MV	-1.500 V	-100.0MV
58	19	-520.0MV	-1.500 V	-100.0MV
68	3	330.0MV	100.0MV	1.500 V
68	5	330.0MV	100.0MV	1.500 V
68	7	340.0MV	100.0MV	1.500 V
68	9	330.0MV	100.0MV	1.500 V
68	12	320.0MV	100.0MV	1.500 V
68	14	330.0MV	100.0MV	1.500 V
68	16	330.0MV	100.0MV	1.500 V
68	18	310.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.970 V	1.900 V	
222	7	1.970 V	1.900 V	
228	9	1.970 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.980 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.980 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.980 V	2.900 V	
234	12	2.980 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.980 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.840 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.830 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.840 V	2.200 V	
317	18	2.860 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	34.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	36.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	134.0MV		400.0MV
409	5	134.0MV		400.0MV
415	7	138.0MV		400.0MV
421	9	152.0MV		400.0MV
427	12	146.0MV		400.0MV
433	14	134.0MV		400.0MV
439	16	132.0MV		400.0MV
445	18	140.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.280 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.280 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	42.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	40.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	40.00MV		100.0MV
380	18	40.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	162.0MV		400.0MV
409	5	158.0MV		400.0MV
415	7	168.0MV		400.0MV
421	9	186.0MV		400.0MV
427	12	178.0MV		400.0MV
433	14	162.0MV		400.0MV
439	16	162.0MV		400.0MV
445	18	166.0MV		400.0MV


```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.780 V	5.200 V	
293	9	5.770 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	52.00MV		100.0MV
356	9	48.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	48.00MV		100.0MV
374	16	52.00MV		100.0MV
380	18	50.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	182.0MV		400.0MV
409	5	176.0MV		400.0MV
415	7	186.0MV		400.0MV
421	9	212.0MV		400.0MV
427	12	198.0MV		400.0MV
433	14	182.0MV		400.0MV
439	16	180.0MV		400.0MV
445	18	186.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	5.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	16.000NA	-1.000UA	1.000UA
492	4	-5.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-5.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-5.000NA	-1.000UA	1.000UA
511	8	3.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-5.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-5.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-5.000NA	-1.000UA	1.000UA
551	19	3.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-120.0NA	-1.000UA	1.000UA
581	3	43.00NA	-1.000UA	1.000UA
586	5	-116.0NA	-1.000UA	1.000UA
589	5	30.00NA	-1.000UA	1.000UA
594	7	-103.0NA	-1.000UA	1.000UA
597	7	29.00NA	-1.000UA	1.000UA
602	9	-147.0NA	-1.000UA	1.000UA
605	9	28.00NA	-1.000UA	1.000UA
613	12	-168.0NA	-1.000UA	1.000UA
616	12	30.00NA	-1.000UA	1.000UA
621	14	-133.0NA	-1.000UA	1.000UA
624	14	32.00NA	-1.000UA	1.000UA
629	16	-125.0NA	-1.000UA	1.000UA
632	16	33.00NA	-1.000UA	1.000UA
637	18	-196.0NA	-1.000UA	1.000UA
640	18	31.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```

STAT1 08/27/11 06:41
TEST PROGRAM HC244 S/N 12

DDS-101-12-A PN 54HC244 ELECTRICAL TEST SEQ 14 +125C

CONTINUITY TEST

INST #	PIN	MEASURED	LT	GT
58	1	-490.0MV	-1.500 V	-100.0MV
58	2	-490.0MV	-1.500 V	-100.0MV
58	4	-490.0MV	-1.500 V	-100.0MV
58	6	-490.0MV	-1.500 V	-100.0MV
58	8	-490.0MV	-1.500 V	-100.0MV
58	11	-490.0MV	-1.500 V	-100.0MV
58	13	-490.0MV	-1.500 V	-100.0MV
58	15	-490.0MV	-1.500 V	-100.0MV
58	17	-490.0MV	-1.500 V	-100.0MV
58	19	-490.0MV	-1.500 V	-100.0MV
68	3	300.0MV	100.0MV	1.500 V
68	5	300.0MV	100.0MV	1.500 V
68	7	300.0MV	100.0MV	1.500 V
68	9	290.0MV	100.0MV	1.500 V
68	12	290.0MV	100.0MV	1.500 V
68	14	290.0MV	100.0MV	1.500 V
68	16	290.0MV	100.0MV	1.500 V
68	18	290.0MV	100.0MV	1.500 V

FUNCTIONAL TEST
VCC= 2
VIH= 1.500 VIL= 500.0E-03

VOH1 TEST
VCC= 2
VOH LIMIT 1.900

INST #	PIN	MEASURED	LT	GT
210	3	1.970 V	1.900 V	
216	5	1.980 V	1.900 V	
222	7	1.980 V	1.900 V	
228	9	1.980 V	1.900 V	
234	12	1.980 V	1.900 V	
240	14	1.970 V	1.900 V	
246	16	1.980 V	1.900 V	
252	18	1.970 V	1.900 V	

VOL1 TEST
VCC= 2
VOL LIMIT 100.0E-03

INST #	PIN	MEASURED	LT	GT
338	3	34.00MV		100.0MV
344	5	34.00MV		100.0MV
350	7	34.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	34.00MV		100.0MV
368	14	34.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	34.00MV		100.0MV

```

-----
FUNCTIONAL TEST
VCC=      3
VIH=    2.100      VIL=    900.0E-03
-----

```

```

-----
VOH1 TEST
VCC=      3
VOH LIMIT 2.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	2.980 V	2.900 V	
216	5	2.970 V	2.900 V	
222	7	2.980 V	2.900 V	
228	9	2.970 V	2.900 V	
234	12	2.970 V	2.900 V	
240	14	2.980 V	2.900 V	
246	16	2.980 V	2.900 V	
252	18	2.970 V	2.900 V	

```

-----
VOH2 TEST
VCC=      3
VOH2 LIMIT 2.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	2.850 V	2.200 V	
281	5	2.840 V	2.200 V	
287	7	2.840 V	2.200 V	
293	9	2.840 V	2.200 V	
299	12	2.840 V	2.200 V	
305	14	2.840 V	2.200 V	
311	16	2.850 V	2.200 V	
317	18	2.850 V	2.200 V	

```

-----
VOL1 TEST
VCC=      3
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	36.00MV		100.0MV
344	5	36.00MV		100.0MV
350	7	36.00MV		100.0MV
356	9	36.00MV		100.0MV
362	12	36.00MV		100.0MV
368	14	36.00MV		100.0MV
374	16	34.00MV		100.0MV
380	18	36.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      3
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	142.0MV		400.0MV
409	5	138.0MV		400.0MV
415	7	140.0MV		400.0MV
421	9	154.0MV		400.0MV
427	12	144.0MV		400.0MV
433	14	138.0MV		400.0MV
439	16	138.0MV		400.0MV
445	18	144.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC= 4.500
VIH= 3.150      VIL= 1.350
-----

```

```

-----
VOH1 TEST
VCC= 4.500
VOH LIMIT 4.400
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	4.450 V	4.400 V	
216	5	4.450 V	4.400 V	
222	7	4.450 V	4.400 V	
228	9	4.450 V	4.400 V	
234	12	4.450 V	4.400 V	
240	14	4.450 V	4.400 V	
246	16	4.450 V	4.400 V	
252	18	4.450 V	4.400 V	

```

-----
VOH2 TEST
VCC= 4.500
VOH2 LIMIT 3.700
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	4.290 V	3.700 V	
281	5	4.290 V	3.700 V	
287	7	4.290 V	3.700 V	
293	9	4.270 V	3.700 V	
299	12	4.280 V	3.700 V	
305	14	4.290 V	3.700 V	
311	16	4.290 V	3.700 V	
317	18	4.300 V	3.700 V	

```

-----
VOL1 TEST
VCC= 4.500
VOL LIMIT 100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	40.00MV		100.0MV
344	5	42.00MV		100.0MV
350	7	42.00MV		100.0MV
356	9	42.00MV		100.0MV
362	12	40.00MV		100.0MV
368	14	40.00MV		100.0MV
374	16	42.00MV		100.0MV
380	18	42.00MV		100.0MV

```

-----
VOL2 TEST
VCC= 4.500
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	168.0MV		400.0MV
409	5	164.0MV		400.0MV
415	7	170.0MV		400.0MV
421	9	188.0MV		400.0MV
427	12	176.0MV		400.0MV
433	14	164.0MV		400.0MV
439	16	164.0MV		400.0MV
445	18	172.0MV		400.0MV

```

-----
FUNCTIONAL TEST
VCC=      6
VIH=    4.200      VIL=    1.800
-----

```

```

-----
VOH1 TEST
VCC=      6
VOH LIMIT  5.900
-----

```

INST #	PIN	MEASURED	LT	GT
210	3	5.970 V	5.900 V	
216	5	5.970 V	5.900 V	
222	7	5.970 V	5.900 V	
228	9	5.970 V	5.900 V	
234	12	5.970 V	5.900 V	
240	14	5.970 V	5.900 V	
246	16	5.970 V	5.900 V	
252	18	5.970 V	5.900 V	

```

-----
VOH2 TEST
VCC=      6
VOH2 LIMIT 5.200
-----

```

INST #	PIN	MEASURED	LT	GT
275	3	5.800 V	5.200 V	
281	5	5.800 V	5.200 V	
287	7	5.790 V	5.200 V	
293	9	5.780 V	5.200 V	
299	12	5.780 V	5.200 V	
305	14	5.790 V	5.200 V	
311	16	5.790 V	5.200 V	
317	18	5.810 V	5.200 V	

```

-----
VOL1 TEST
VCC=      6
VOL LIMIT  100.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
338	3	52.00MV		100.0MV
344	5	52.00MV		100.0MV
350	7	50.00MV		100.0MV
356	9	50.00MV		100.0MV
362	12	50.00MV		100.0MV
368	14	50.00MV		100.0MV
374	16	50.00MV		100.0MV
380	18	52.00MV		100.0MV

```

-----
VOL2 TEST
VCC=      6
VOL2 LIMIT 400.0E-03
-----

```

INST #	PIN	MEASURED	LT	GT
403	3	188.0MV		400.0MV
409	5	180.0MV		400.0MV
415	7	188.0MV		400.0MV
421	9	212.0MV		400.0MV
427	12	198.0MV		400.0MV
433	14	184.0MV		400.0MV
439	16	182.0MV		400.0MV
445	18	190.0MV		400.0MV

```

-----
IIN TEST
VCC= 6
IIL/IIH LIMIT +- 0.1UA @25C/-55C
IIL/IIH LIMIT +- 1.0UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
476	1	-4.000NA	-1.000UA	1.000UA
479	1	6.000NA	-1.000UA	1.000UA
484	2	-5.000NA	-1.000UA	1.000UA
487	2	20.00NA	-1.000UA	1.000UA
492	4	-6.000NA	-1.000UA	1.000UA
495	4	4.000NA	-1.000UA	1.000UA
500	6	-6.000NA	-1.000UA	1.000UA
503	6	3.000NA	-1.000UA	1.000UA
508	8	-6.000NA	-1.000UA	1.000UA
511	8	5.000NA	-1.000UA	1.000UA
516	11	-5.000NA	-1.000UA	1.000UA
519	11	3.000NA	-1.000UA	1.000UA
524	13	-6.000NA	-1.000UA	1.000UA
527	13	3.000NA	-1.000UA	1.000UA
532	15	-5.000NA	-1.000UA	1.000UA
535	15	3.000NA	-1.000UA	1.000UA
540	17	-5.000NA	-1.000UA	1.000UA
543	17	2.000NA	-1.000UA	1.000UA
548	19	-5.000NA	-1.000UA	1.000UA
551	19	2.000NA	-1.000UA	1.000UA

```

-----
IOZ TEST
VCC= 6
IOZ LIMIT +- 0.5UA @25C/-55C
IOZ LIMIT +- 10UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
578	3	-160.0NA	-1.000UA	1.000UA
581	3	51.00NA	-1.000UA	1.000UA
586	5	-184.0NA	-1.000UA	1.000UA
589	5	38.00NA	-1.000UA	1.000UA
594	7	-211.0NA	-1.000UA	1.000UA
597	7	42.00NA	-1.000UA	1.000UA
602	9	-255.0NA	-1.000UA	1.000UA
605	9	40.00NA	-1.000UA	1.000UA
613	12	-255.0NA	-1.000UA	1.000UA
616	12	40.00NA	-1.000UA	1.000UA
621	14	-236.0NA	-1.000UA	1.000UA
624	14	43.00NA	-1.000UA	1.000UA
629	16	-226.0NA	-1.000UA	1.000UA
632	16	41.00NA	-1.000UA	1.000UA
637	18	-234.0NA	-1.000UA	1.000UA
640	18	36.00NA	-1.000UA	1.000UA

```

-----
ICC TEST
VCC= 6
ICC LIMIT MAX. 4.0UA @25C/-55C
ICC LIMIT MAX. 160UA @+125C
-----

```

INST #	PIN	MEASURED	LT	GT
672	20	0 A		160.0UA
679	20	0 A		160.0UA

```

EIR 1.....10    FCT    DCT
0000000000    PASS    PASS    EOT

```



MIL-PRF-38534 CLASS K DATAPACK

Scanning Electron Microscopy (SEM) analysis



TANDEX TEST LABS, INC.

15849 Business Ctr. Dr. Irwindale CA. 91706

Phone: (626)-962-7166 Fax: (626)-960-6896

SCANNING ELECTRON MICROSCOPE ANALYSIS

DIE DEVICES

TTL Job # DDS-101-12-W

Date: June 28, 2018

Part Number: 54HC244

Part Type: CMOS LOGIC MICROCIRCUIT

Lot: Lot# 210144 D/C: 1810 WFR# 15

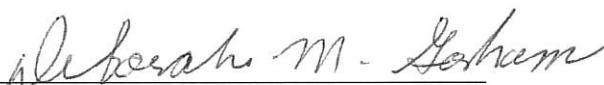
Quantity: Eight (8)

Purchase Order: SS139

Submitted by: _____


Jason A. Salinas
DPA/MTS

Approved by: _____


Deborah M. Gorham
Quality Assurance

TANDEX TEST LABS TTL Job # DDS-101-12-W

Summary

Eight (8) CMOS Logic Microcircuit P/N: 54HC244 were submitted by Die Devices for Scanning Electron Microscopy Analysis. This Analysis was performed in accordance with Mil-Std-883, Method 2018.6 The devices were assigned sample number 1 through 8 by Tandex Test Labs.

1. **Plasma Etching** Carbon Tetrafluoride Gas 92% and 8% Oxygen was used to remove the glassivation. This etching is destructive and uneven in the rates of glass removal in various areas of the die.
2. **SEM Inspection** was performed on all eight devices. All eight devices revealed adequate metallization coverage and met the requirements of MIL-STD-883, Method 2018.6. See DPA form on page 3 and figures 1 through 3, for typical photographs.

Conclusion: This lot is acceptable for use.

TANDEX TEST LABS TTL Job # DDS-101-12-W
SEM EXAMINATION

TTL Job No. DDS-101-12-W	Part Number 54HC244	Part Type CMOS Logic Microcircuit	Date June 25, 2018
Lot Date Code: WFR# 15 Lot# 210144 D/C: 1810	Sample Qty. 8	Serial Numbers 1 - 8	Test Specifications Mil-Std-883 Method 2018.6
Misc. ID No.	Qty. Accept 8	Qty. Reject 0	Qty. Suspect 0

Notes:

S/N	Investigation Findings / Comments	A/R/S
1	No Anomalies	A
2	No Anomalies	A
3	No Anomalies	A
4	No Anomalies	A
5	No Anomalies	A
6	No Anomalies	A
7	No Anomalies	A
8	No Anomalies	A

Each sample was inspected for the general metallization condition at a magnification between 1,000 X and 6,000 X over 25% of the total metallization (unless specified differently). Each sample was inspected from four (4) viewing directions at a magnification between 5,000 X and 20,000 X

Inspection required Yes: X No: Devices constructed with expanded Metallization Yes: X No:

Sample Glassivated Yes: X No: Dual Level Metallization Yes: No: X

Glassivation Removed Using: PLASMA ETCHING

Beam accelerating voltage 10kV to 20kV Viewing angle 45 deg



Technician Stamp:

TANDEX TEST LABS TTL Job # DDS-101-12-W

Photodocumentation

TANDEX TEST LABS TTL Job # DDS-101-12-W

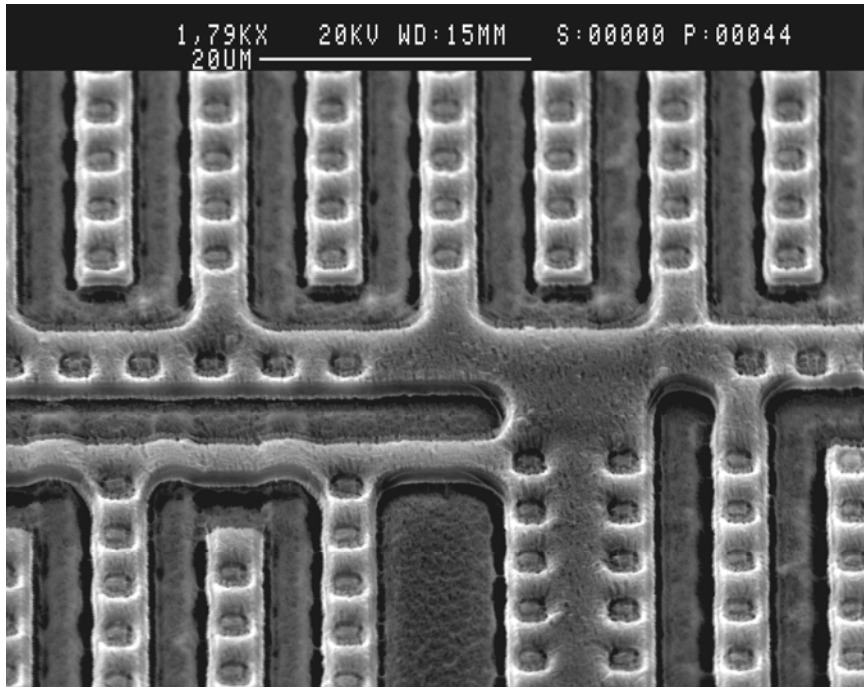


Fig: 1

Mag: 1,790X

S/N: 2

Description: SEM photograph of general metallization.

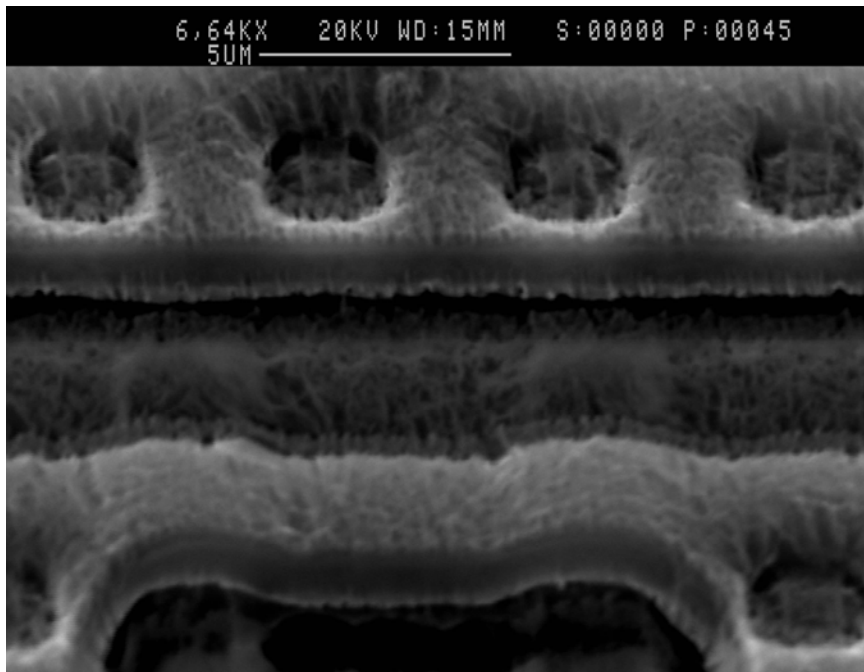


Fig: 2

Mag: 6,640X

S/N: 2

Description: SEM photograph of metallization typical step.

TANDEX TEST LABS TTL Job # DDS-101-12-W

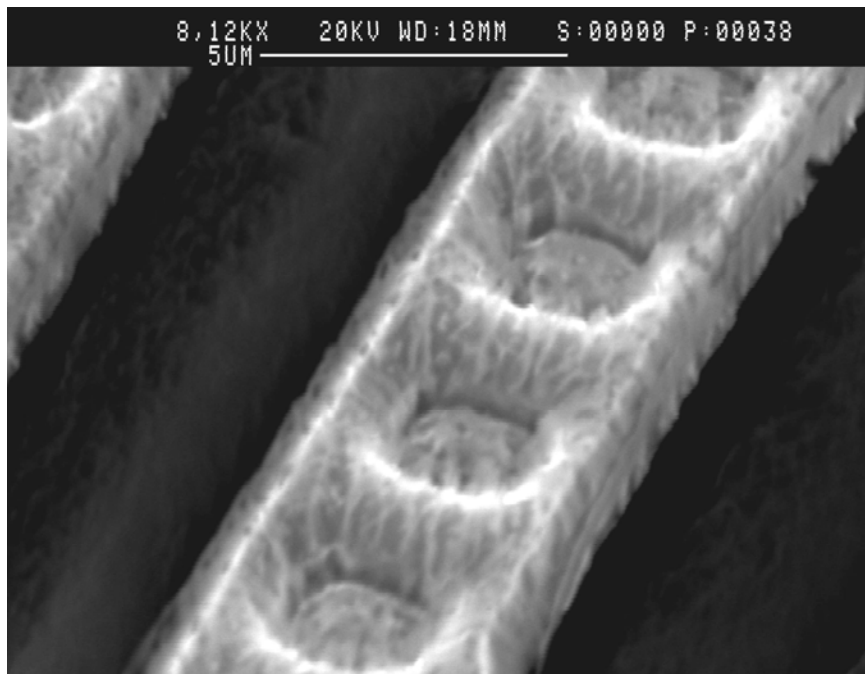


Fig: 3

Mag: 8,120X

S/N: 2

Description: SEM photograph of typical contact window device.

TANDEX TEST LABS, INC.

15849 Business Center. Dr., Irwindale CA. 91706

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<http://www.tandexlabs.com>

e-mail: via web site

Certificate of Conformance

CUSTOMER:	Silicon Supplies Limited 47 Wherry Road Norwich, NR1, 1WS United Kingdom Vat GB# 114 3513 56	DATE: June 28, 2018
TEST REPORT:	DDS-101-12-W	QUANTITY REQUIRED: 8
P.O. NUMBER:	SS139	QUANTITY PROCESSED: 8
DESCRIPTION:	CMOS LOGIC MICROCIRCUIT	QUANTITY PASSED: 8
PART NUMBER(S):	54HC244	QUANTITY FAILED: 0
MFG PART NUMBER	54HC244	QUANTITY SHIPPING: 8
LOT / DATE CODE:	LOT# 210144 WFR# 15 D/C: 1810	
MFG:	SILICON SUPPLIES	

METHOD OF TESTING: MIL-STD-883 METHOD 2018.6

I hereby certify that the subject components have been processed and inspected in accordance with instructions with specifications referenced in your purchase order. Physical records and/or data pertinent to applicable military, proprietary, and/or commercial specifications are on file and available upon request for inspection at this facility.





Deborah M. Gorham
QUALITY ASSURANCE