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MIL PRF 38534 CLASS H TRAVELLER

Customer:	Cust PO#:	Cust Spec:
LQH #:003	Bonding Diagram#: DBD0	SO:19548
Device:1N4148	Device IIL:7057	
Bond Wire:Au	Package Style:TO39	Package IIL:6316
Die Attach Type:Ag	Lid Style:Cap	Lid IIL:6315

SEQ	OPERATION/PS	CONDITIONS	QTY	ACCEPT	REJ.	DATE	SIG.	COMMENTS
1	100% Die Visual PS0001	MIL STD 750 TM 2072	15	15		3/1/23	DPB	Equipment #:1
2	Die Attach PS0002	Cure Epoxy 1Hr @150°C Oven Temp Check:	15	15		3/1/23	DPB	Equipment #:8
3	Wire Bond PS 00003	Wire Type: Al or Au Diameter: x Mils	15	15		3/1/23	DPB	Equipment #:7
4	Internal Visual PS0001	MIL STD 750 TM 2072	15	15		3/1/23	DPB	Equipment #:1
5	Lid Seal PS 00004	Cure Epoxy 1Hr @150°C	15	15		4/1/23	DPB	Equipment #:8 Oven Temp Check:151°C
6	100% Electrical Test +25°C	Manufacturers Datasheet	15	15		4/1/23	DPB	Equipment #:12 Program# 1N4148
7	100% Electrical Test -55°C	Manufacturers Datasheet	15	15		4/1/23	DPB	Equipment #:12 Program# 1N4148

ALL ELECTRICAL TEST RESULTS ARE SUPPLIED ELECTRONICALLY



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SEQ	OPERATION/PS	CONDITIONS	QTY	ACCEPT	REJ.	DATE	SIG.	COMMENTS
8	100% Electrical Test +125°C	Manufacturers Datasheet	15	15		5/1/23	DPB	Equipment #:12 Program# 1N4148
9	Bond Pull Test Bake PS 00005	MIL STD 883 TM2011 1hr 300°C bake	10	10		5/1/23	DPB	Equipment #:8 Oven Temp Check# 300°C
10	Bond Pull Test PS 00006	MIL STD 883 TM2011 Attach Electronic Results to Folder	10	10		5/1/23	DPB	Equipment #:15 BPR:0021
11	Final QA PS 00001	Check Test Records and Documentation	15	15		6/1/23	DSB	
12	Dispatch goods and Electronic Records to customer		1	1		6/1/23	RB	
13								
14								

ALL ELECTRICAL TEST RESULTS ARE SUPPLIED ELECTRONICALLY

Data D101_1N4148_25C Final

Device #	Result	Date	1.1 IR - 20V	2.1 VR - Rev. Volt. (VR>20V)	3.1 VF - 10mA
Unit			uA	V	mV
Lower limit				100.000	0.000
Upper limit			50.000	714.000	1000
1	Pass	04/01/2023	0.01	168.23	729.50
2	Pass	04/01/2023	0.01	167.80	724.00
3	Pass	04/01/2023	0.01	136.84	714.00
4	Pass	04/01/2023	0.01	167.51	721.25
5	Pass	04/01/2023	0.01	167.99	724.50
6	Pass	04/01/2023	0.01	168.00	724.00
7	Pass	04/01/2023	0.01	167.69	722.50
8	Pass	04/01/2023	0.01	167.88	723.25
9	Pass	04/01/2023	0.01	167.84	726.50
10	Pass	04/01/2023	0.01	168.39	721.50

Cust PO#:XXXX

SO:XXXX

Cust Spec:XXXX

LQH #:003



Data D101_1N4148_-55C FINAL

Device #	Result	Date	1.1 IR - 20V	2.1 VR - Reverse	3.1 VF - 10mA
Unit			uA	V	mV
Lower limit				100.000	0.000
Upper limit			50.000	714.000	1010.000
1	Pass	04/01/2023	-0.005	160.421	842.500
2	Pass	04/01/2023	-0.002	159.859	843.250
3	Pass	04/01/2023	-0.002	138.105	836.500
4	Pass	04/01/2023	-0.002	159.146	845.000
5	Pass	04/01/2023	-0.001	159.679	845.750
6	Pass	04/01/2023	-0.002	159.480	852.000
7	Pass	04/01/2023	-0.004	159.773	842.000
8	Pass	04/01/2023	-0.011	159.653	847.250
9	Pass	04/01/2023	-0.004	159.023	854.500
10	Pass	04/01/2023	-0.004	155.389	858.750

Cust PO#:XXXX

SO:XXXX

Cust Spec:XXXX

LQH #:003



Data D101_1N4148_125C Final

Device #	Result	Date	1.1 IR - 20V	2.1 VR - Rev. Volt. (VR>20V)	3.1 VF - 10mA
Unit			uA	V	mV
Lower limit				100.000	0.000
Upper limit			50.000	714.000	1000
1	Pass	05/01/2023	1.88	172.95	592.50
2	Pass	05/01/2023	3.76	171.02	572.50
3	Pass	05/01/2023	2.59	117.96	572.50
4	Pass	05/01/2023	3.43	170.72	572.50
5	Pass	05/01/2023	3.16	171.57	576.25
6	Pass	05/01/2023	3.03	171.93	576.75
7	Pass	05/01/2023	3.84	170.60	568.25
8	Pass	05/01/2023	4.13	170.62	567.75
9	Pass	05/01/2023	4.56	168.61	566.25
10	Pass	05/01/2023	4.28	171.17	567.50

Cust PO#:XXXX

SO:XXXX

Cust Spec:XXXX

LQH #:003



BOND PULL RECORD


SN: 16			SN: 17			SN: 18			SN:19			SN:20			SN:		
#	F	C	#	F	C	#	F	C	#	F	C	#	F	C	#	F	C
1	5.32	2	3	5.16	4	5	5.61	4	7	4.88	7	9	4.98	7			
2	4.92	2	4	6.45	7	6	4.68	2	8	4.93	7	10	5.13	4			

Part #	1N4148	Date	6 th January 2023
Sample Qty	5 package 10 wires	Bond Type	Ball
Wire Size	25µ	Wire Type	Au
Min allowable strength	2.5gm	BPR	0021
Customer		Customer PO SO	PO3403 19548
Batch #	LQH0003	Equipment	XYZTEC

F=Pull Strength in gms C=Failure Code

CODES

1. No Wire Break
2. Bond lift from Die
3. Bond lift from Post
4. Wire breaks at Heal
5. Die Metallisation delaminates
6. No Connection
7. Wire Breaks from Die
8. Bond Breaks at span

Signature	Date
	6 th January 2023