

Standard recovery rectifier diode in bare die form

Rev 1.0 25/08/23

Features:

- Low leakage current
- High forward surge current capability
- Low forward voltage drop
- Robust construction
- High reliability tested grades.

Ordering Information

The following part suffixes apply:

- No suffix MIL-STD-750 /2073 Visual Inspection
- "H" MIL-STD-750 /2073 Visual Inspection + MIL-PRF-38534 Class H LAT
- "K" MIL-STD-750 /2073 Visual Inspection + MIL-PRF-38534 Class K LAT

LAT = Lot Acceptance Test.

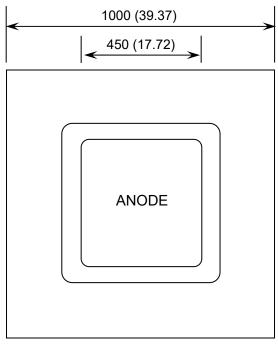
For further information on LAT process flows see below.

www.siliconsupplies.com\quality\bare-die-lot-qualification

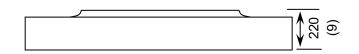
Supply Formats:

- Default Die in Waffle Pack (400 per tray capacity)
- Sawn Wafer on Tape By specific request
- Unsawn Wafer By specific request
- With additional electrical selection By specific request

Die Dimensions in µm (mils)



CHIP BACKSIDE IS CATHODE



Mechanical Specification

Die Size (Unsawn)	1000 x 1000 39.37 x 39.37	µm mils	
Anode Pad Size	450 x 450 17.72 x 17.72	µm mils	
Die Thickness	220 (±20) μ 8.66 (±0.79) m		
Top Metal Composition	Al 7.5µm		
Back Metal Composition	Ti/Ni/Ag		





Rev 1.0 18/01/19

Absolute Maximum Ratings T_J = 25°C unless otherwise stated

PARAMETER	SYMBOL	VALUE	UNIT	
Peak Repetitive Reverse Voltage	V _{RRM}	100	V	
DC Blocking Voltage	V _R	100	V	
RMS Reverse Voltage	V _{R (RMS)}	70	V	
Average forward rectified current	I _{F(AV)} , T _J = 75°C	1	A	
Peak forward surge current ¹	I _{FSM}	30	A	
Operating Junction temperature	TJ	-55 to 175	°C	
Storage Temperature Range	T _{STG}	-65 to 200	O°	

Electrical Characteristics T_J = 25°C unless otherwise stated

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Maximum instantaneous Forward Voltage ²	VF	I _F = 1A	-	-	1.1	V
Maximum Reverse Leakage Current	Inv @ Vanu	V _{RRM} = 100V, T _J = 25°C	-	-	5	μA
		V _{RRM} = 100V, T _J = 100°C	-	-	50	
Maximum Junction Capacitance	CJ	V _R = 0, f = 1.0MHz	-	-	40	pF

1. Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load

2. Pulse Width = 3.8ms

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