

Silicon Epitaxial Planar Switching Diode

FEATURES

- ♦For surface mounted applications
- ♦Glass Passivated Chip Junction
- ♦Fast reverse recovery time
- ♦Ideal for automated placement
- ♦Lead free in comply with EU RoHS 2011/65/EU directives

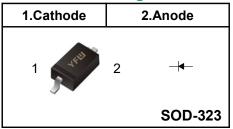
MECHANICAL DATA

♦Case: SOD-323

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦Approx. Weight: 5.48mg / 0.00019oz

Pinning



Marking Code		
1N4448WS	Т5	

Absolute Maximum Ratings (Ta = 25°C)

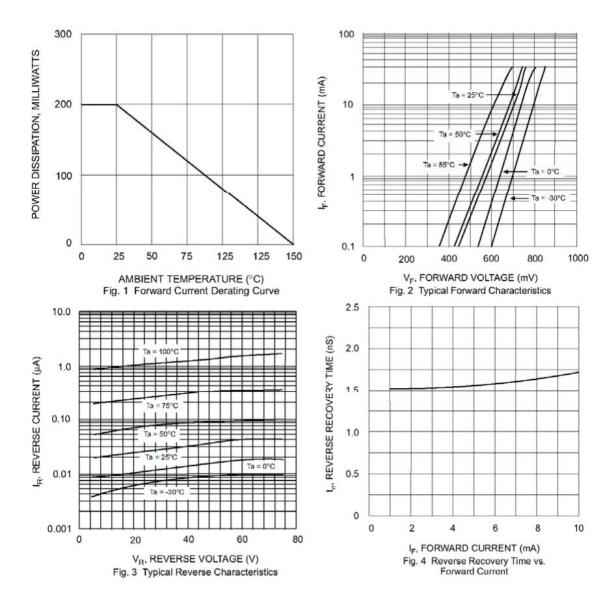
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	I _{F(AV)}	150	mA
Forward Continuous Current	I _{FM}	300	mA
Non-Repetitive Peak Forward Surge Current (at t = 1 μs)	I _{FSM}	0.5	А
Power Dissipation	P _d	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics at Ta = 25°C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 5$ mA at $I_F = 10$ mA at $I_F = 100$ mA at $I_F = 150$ mA	V _F	0.62 - - -	0.72 0.855 1 1.25	V
Reverse Leakage Current at V_R = 80 V at V_R = 20 V at V_R = 75 V, T_J = 150 °C at V_R = 25 V, T_J = 150 °C	I _R	- - - -	100 25 50 30	nA nA µA µA
Reverse Breakdown Voltage at I_R = 100 μ A	$V_{(BR)R}$	80	-	V
Total Capacitance at $V_R = 0.5 \text{ V}$, $f = 1 \text{ MHz}$	C _{tot}	-	4	pF
Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	-	4	ns



Typical Characteristics



Rev:BDCJI

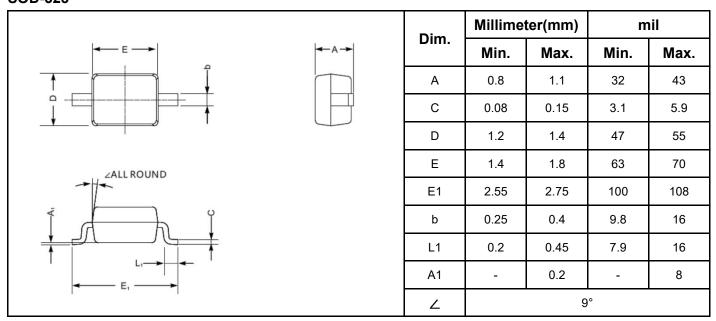


Ordering information

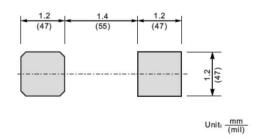
Package	Packing Description	Packing Quantity
SOD-323 Tape/Reel,7"reel		3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323



The recommended mounting pad size



Rev:BDCJI

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