

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Fast Switching Speed
- High Conductance
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

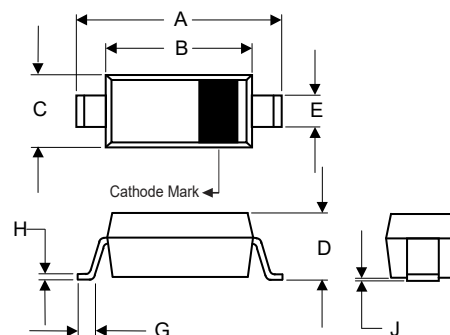
MCC Part Number	Device Marking
1N4448WXHE3	T5

Parameter	Symbol	Value
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V
DC Reverse Voltage	V_R	75V
Peak Repetitive Reverse Voltage	V_{RRM}	75V
Working Inverse Voltage	V_{RWM}	75V
RMS Reverse Voltage	$V_{R(RMS)}$	53V
Forward Continuous Current (Note 2)	I_{FM}	500mA
Average Forward Current	$I_{F(AV)}$	250mA
Peak Forward Surge Current (t=1s)	I_{FSM}	2A
(t=1μs)		4A
Power Dissipation	P_D	200mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. Valid Provided that Terminals are Kept at Ambient Temperature

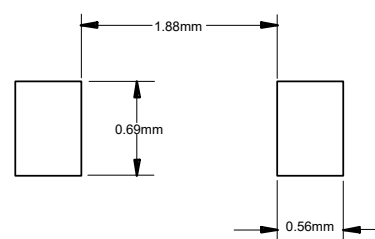
200mW High Speed Switching Diode

SOD-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.090	0.113	2.30	2.88	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.049	0.80	1.24	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	----	0.006	----	0.15	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward Voltage	V_F	$I_F=5\text{mA}$			0.72	V
		$I_F=10\text{mA}$			0.855	V
		$I_F=100\text{mA}$			1	V
		$I_F=150\text{mA}$			1.25	V
Reverse Current	I_R	$V_R=20\text{V}$			25	nA
		$V_R=75\text{V}$			2.5	μA
		$V_R=25\text{V}, T_J=150^\circ\text{C}$			30	μA
		$V_R=75\text{V}, T_J=150^\circ\text{C}$			50	μA
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$			4	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA},$ $I_{tr}=0.1 \times I_R, R_L=100\Omega$			4	ns

* Pulse Test: Pulse Width 300 μsec , Duty Cycle 2%

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

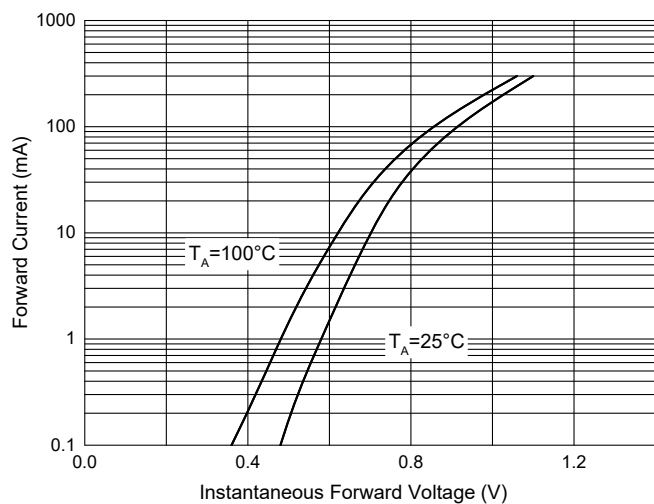


Fig. 2 - Typical Reverse Leakage Characteristics

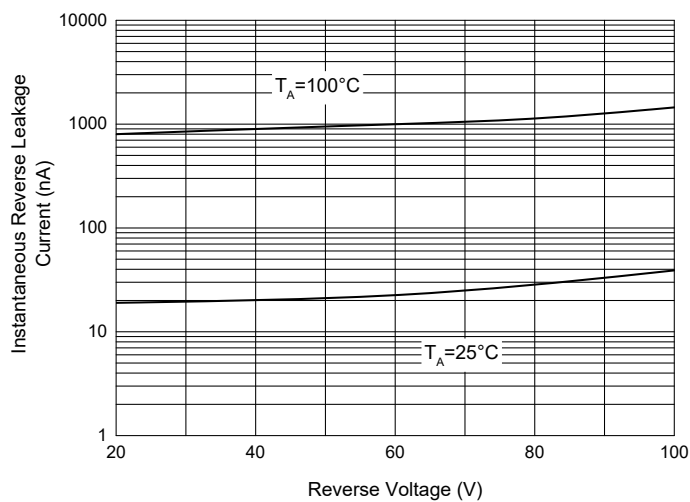
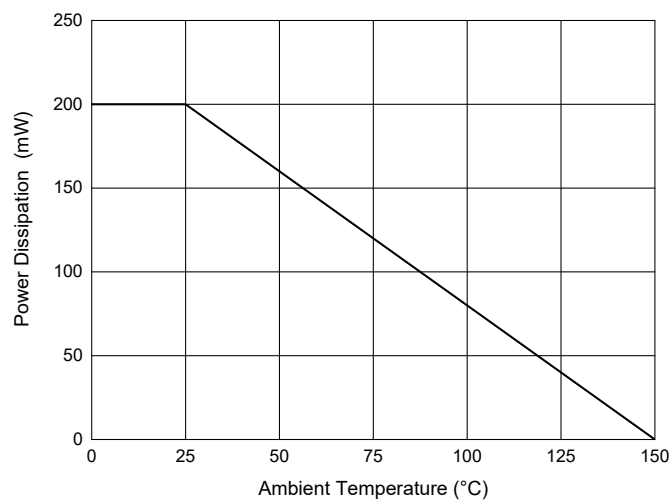


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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