

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

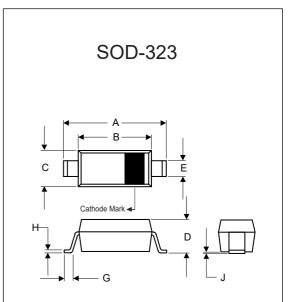
MCC Part Number		Device Marking		
	1N4448WXHE3	T5		

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)	-	2A	
(t=1µs)	I _{FSM}	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.

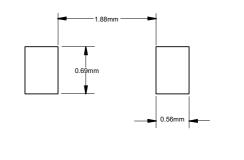
2. Valid Provided that Terminals are Kept at Ambient Temperature

200mW High Speed Switching Diode



DIMENSIONS					
INCHE			MM		NOTE
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.113	2.30	2.88	
В	0.063	0.071	1.60	1.80	
С	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	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





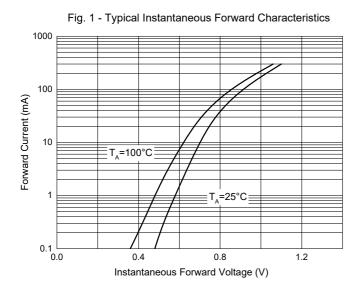
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage	V _F	I _F =5mA			0.72	V
		I _F =10mA			0.855	V
		I _F =100mA			1	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =20V			25	nA
		V _R =75V			2.5	μA
		V _R =25V, T _J =150°C			30	μA
		V _R =75V, T _J =150°C			50	μA
Junction Capacitance	Сл	$V_R = 0V$, $f = 1MHz$			4	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=0.1\times I_R, R_L=100\Omega$			4	ns

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



Curve Characteristics



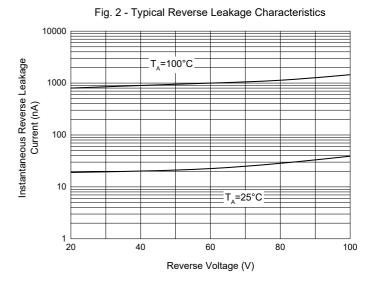


Fig. 3 - Power Derating Curve

250
200
150
150
0
255
50
75
100
125
150
Ambient Temperature (°C)



Ordering Information

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

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