

Features

- Fast Switching Speed
- High Conductance
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

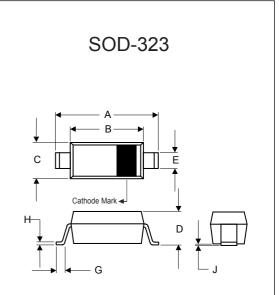
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

MCC Part Number	Device Marking		
1N4448WX	Т5		

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 1)	I _{FM}	500mA	
Average Forward Current	I _{F(AV)}	250mA	
Peak Forward Surge Current (t=1s)	1	2A	
(t=1µs)	FSM	4A	
Power Dissipation	P _D	200mW	

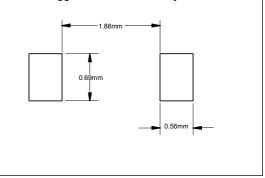
Notes: 1. Valid Provided that Terminals are Kept at Ambient Temperature

200mW High Speed Switching Diode



	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIN	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
Deverse Overset	Reverse Current I _R	V _R =20V			25	nA
		V _R =75V			2.5	μA
Reverse Gurrent		V _R =25V, T _J =150°C			30	μA
		V _R =75V, T _J =150°C			50	μA
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			4	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R ,R _L =100Ω			4	ns

* Pulse Test: Pulse Width 300 $\mu sec,$ Duty Cycle 2%



Curve Characteristics

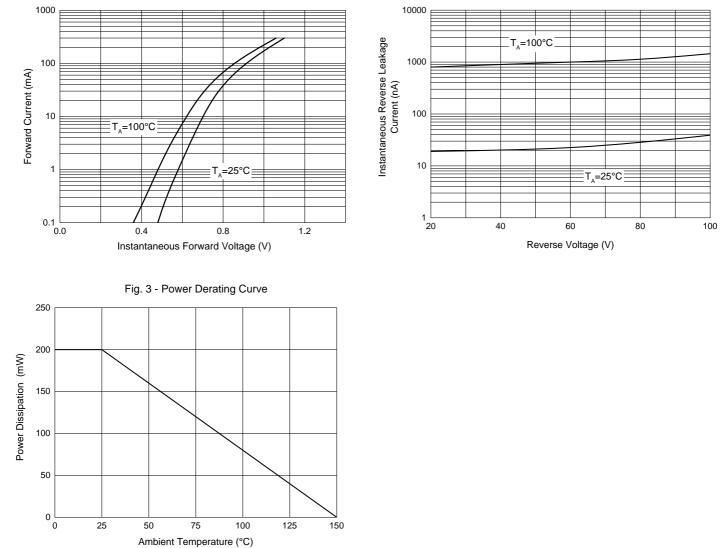


Fig. 2 - Typical Reverse Leakage Characteristics



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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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