

Features

- Fast Switching Speed
- High Conductance
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- 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

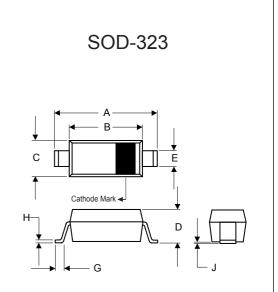
MCC Part Number	Device Marking		
1N4448WX	Т5		

Parameter	Symbol	Value
Non-Repetitive Peak Reverse Voltage	V _{RM}	100V
DC Reverse Voltage	V _R	100V
Peak Repetitive Reverse Voltage	V _{RRM}	100V
Working Inverse Voltage	V _{RWM}	100V
RMS Reverse Voltage	V _{R(RMS)}	71V
Forward Continuous Current (Note 2)	I _{FM}	500mA
Average Forward Current	I _{F(AV)}	250mA
Peak Forward Surge Current (t=1s)	1	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.

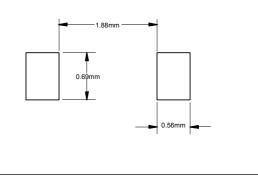
Note: 2. Valid Provided that Terminals are Kept at Ambient Temperature

200mW High Speed Switching Diode



	DIMENSIONS				
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
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											
		V _R =20V			25	nA											
	ent I _R	V _R =75V			1	μA											
Reverse Current		R R	I IR	'R	R	I 'R	I IR	I IR	'R	'R	'R	'R	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}	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	ns											

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



Curve Characteristics

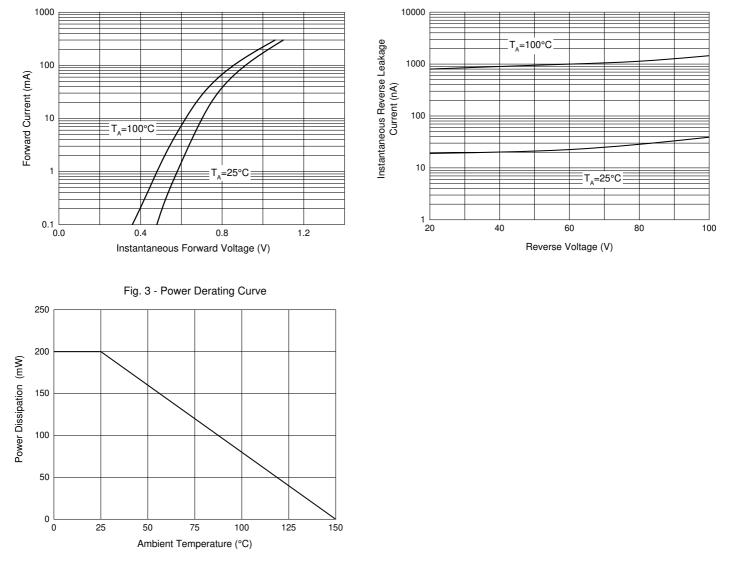


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics



Ordering Information

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

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