

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	T5		

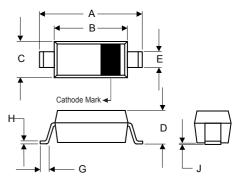
Parameter	Symbol	Value	
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V	
DC Reverse Voltage	V_R	100V	
Peak Repetitive Reverse Voltage	V_{RRM}	100V	
Working Inverse Voltage	V_{RWM}	100V	
RMS Reverse Voltage	$V_{R(RMS)}$	71V	
Forward Continuous Current (Note 2)	I _{FM}	500mA	
Average Forward Current	I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

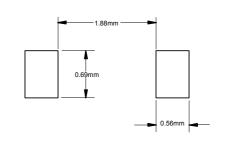
200mW High Speed Switching Diode





DIMENSIONS						
DIM	INCHES		MM		NOTE	
Dilvi	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		
Е	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





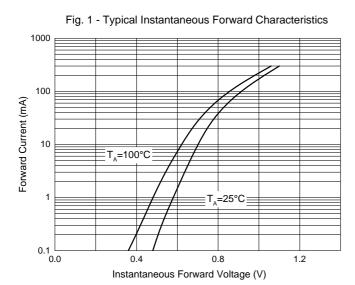
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

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			1	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, $I_{rr}=0.1$ x I_R , $R_L=100$ Ω			4	ns

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



Curve Characteristics



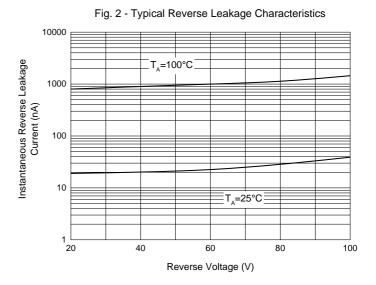


Fig. 3 - Power Derating Curve

250
200
150
150
0 25 50 75 100 125 150

Ambient Temperature (°C)



Ordering Information

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

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