

Features

- · Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- Halogen Free. "Green" Device (Note 1)
- 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

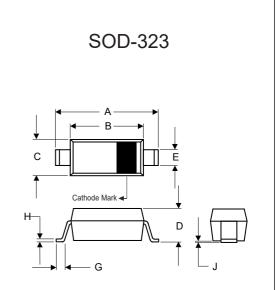
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance:625°C/W Junction to Ambient

MCC Part Number	Device Marking		
1N4148WX	T4		

Parameter	Symbol	Value	
DC Reverse Voltage	V _R	100V	
Working Peak Reverse Voltage	V _{RWM}	100V	
RMS Reverse Voltage	V _{R(RMS)}	71V	
Forward Continuous Current	I _{FM}	300mA	
Average Rectified Output Current	Ι _Ο	150mA	
Peak Forward Surge Current (t=1µs)	I	2A	
(t=1s)	FSM	1A	
Power Dissipation	P _D	200mW	

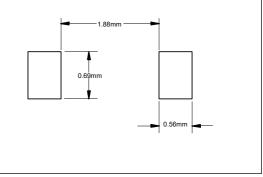
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

200mW High Speed Switching Diode



DIMENSIONS					
		HES MM		М	NOTE
	MIN	MAX	X MIN M	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 =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current I _R		V _R =20V, T _J =25°C			25	nA
	I _R	V _R =75V, T _J =25°C			1	μA
		V _R =75V, T _J =150°C			50	μA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			2	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 µsec, Duty Cycle 2%



Curve Characteristics

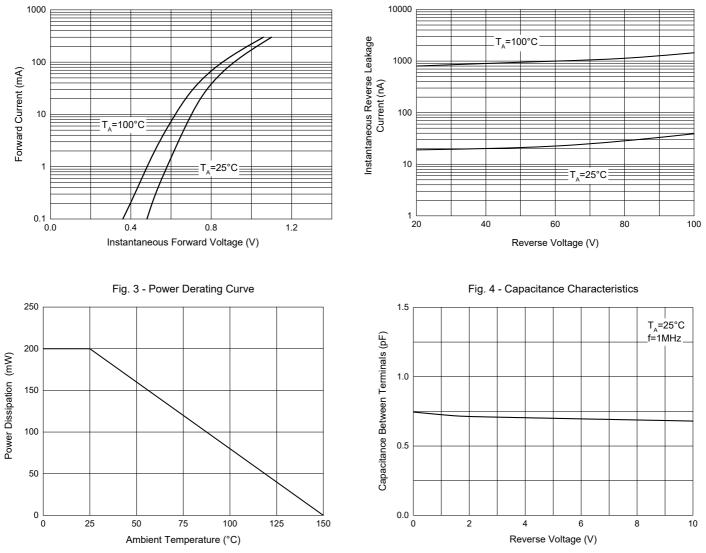


Fig. 2 - Typical Reverse Leakage Characteristics



Ordering Information

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

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