

Features

- · Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- · 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)

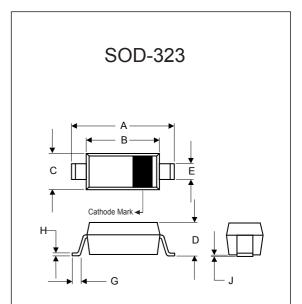
Maximum Ratings

- 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		

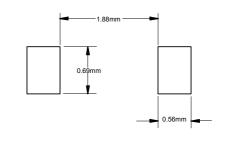
Parameter	Symbol	Value	
DC Reverse Voltage	V_R	100V	
Working Peak Reverse Voltage	V_{RWM}	100V	
RMS Reverse Voltage	V _{R(RMS)}	71V	
Forward Continuous Current	I _{FM}	300mA	
Average Rectified Output Current	Io	150mA	
Peak Forward Surge Current (t=1µs)	ı	2A	
(t=1s)	I _{FSM}	1A	
Power Dissipation	P _D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

200mW High Speed Switching Diode



DIMENSIONS					
DIM	INC	HES	MM		NOTE
ווועו	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





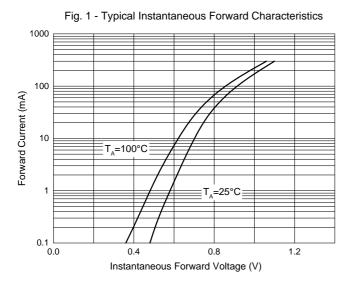
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

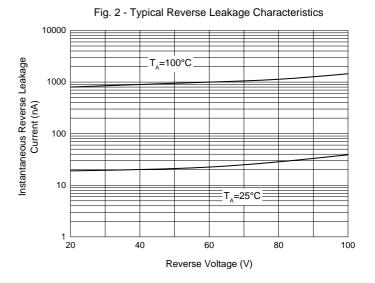
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage	V	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
	V _F	I _F =50mA			1	V
		I _F =150mA			1.25	V
	V _R =20V, T _J =25°C			25	nA	
Reverse Current	Reverse Current I _R	V _R =75V, T _J =25°C			1	μΑ
		V _R =75V, T _J =150°C			50	μΑ
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			2	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \cdot I_R, R_L = 100 \Omega$			4	ns

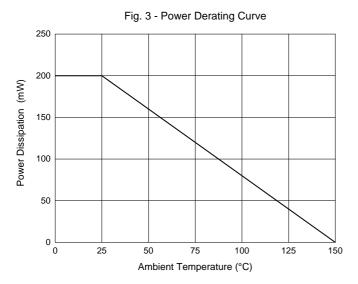
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics









Ordering Information

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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