

Micro Commercial Components

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1N4148WX

High Speed Switching Diode 500mW

Features Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Surface Mount Package Ideally Suited for Automatic Insertion For General Purpose Switching Applications

Mechanical Data

Fast Switching Speed

Marking: T4

Terminals: Solderable per MIL-STD-202, Method 208

Polarity: Indicated by Cathode Band

Weight: 0.008 grams (approx.)

Moisture Sensitivity: Level 1 per J-STD-020C

Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings @ 25°C Unless Otherwise Specified

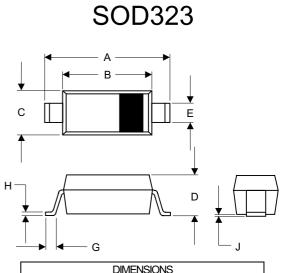
Reverse Voltage	V_R	100	V
Peak Reverse Voltage	V_{RM}	75	V
Average Rectified Current	I _{F(AV)}	300 ⁽¹⁾	mA
Peak Forward Surge Current t<1S	I _{FSM}	2.0	Α
Power Dissipation	P_{D}	500	mW
Thermal Resistance	R_{JA}	315	K/W
Operation/Storage Temp. Range	T_{j}, T_{STG}	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

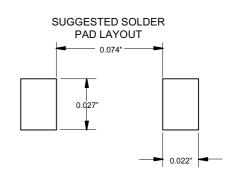
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Maximum Instantaneous Forward Voltage	V _F	1.0V	$I_{FM} = 50 \text{mA};$ $T_J = 25^{\circ}\text{C (Note 1)}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	25nA 50μA 5.0uA	V_R =20Volts T_J = 25°C T_J = 150°C V_R =75V, T_J =25°C
Typical Junction Capacitance	CJ	4pF	V _F =V _R =0V
Maximum Reverse Recovery Time	T _{rr}	4nS	I_F =50mA I_{rr} = 0.1 I_R R_L =100 Ω

Notes:

1. Valid provided that terminals are kept at ambient temperature

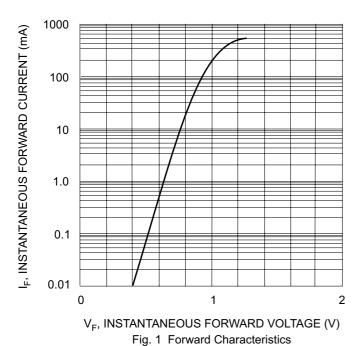


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	





1N4148WX



10,000 100 100 200

T_j, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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