



Features

- Halogen free available upon request by adding suffix "-HF"
- 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
- Fast Switching Speed

Mechanical Data

- 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
- Epoxy meets UL 94 V-0 flammability rating

Moisture Sensitivity Level 1

Maximum Ratings @ 25°C Unless Otherwise Specified

Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Output Current	I_o	150	mA
Peak Forward Surge Current t=1us	I_{FSM}	2.0	A
Power Dissipation	P_D	200	mW
Thermal Resistance	R_{JA}	625	K/W
Operation/Storage Temp. Range	T_j, T_{STG}	-55 to +150	°C

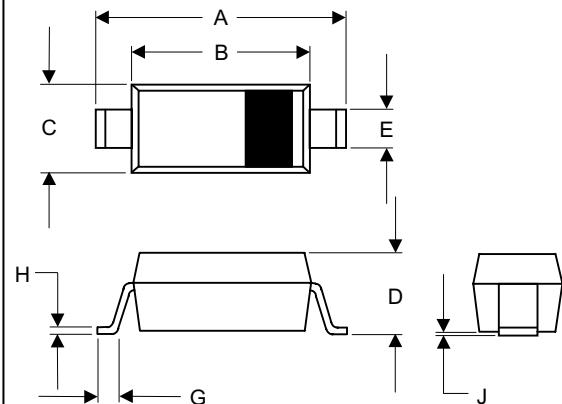
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Instantaneous Forward Voltage	V_F	1.0V	$I_F = 50\text{mA}; T_J = 25^\circ\text{C}$ (Note 1)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 50 μ A 5.0 μ A	$V_R=20\text{Volts}$ $T_J = 25^\circ\text{C}$ $T_J = 150^\circ\text{C}$ $V_R=75\text{V}, T_J=25^\circ\text{C}$
Typical Junction Capacitance	C_J	4pF	$V_F=V_R=0\text{V}$
Maximum Reverse Recovery Time	T_{rr}	4nS	$I_F=50\text{mA}$ $I_{rr}=0.1I_R$ $R_L=100\Omega$

1N4148WX

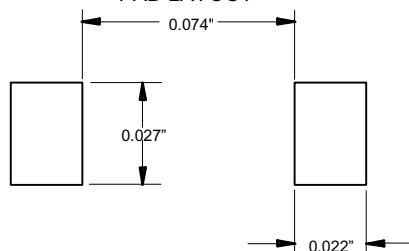
**High Speed
Switching Diode
200mW**

SOD323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT



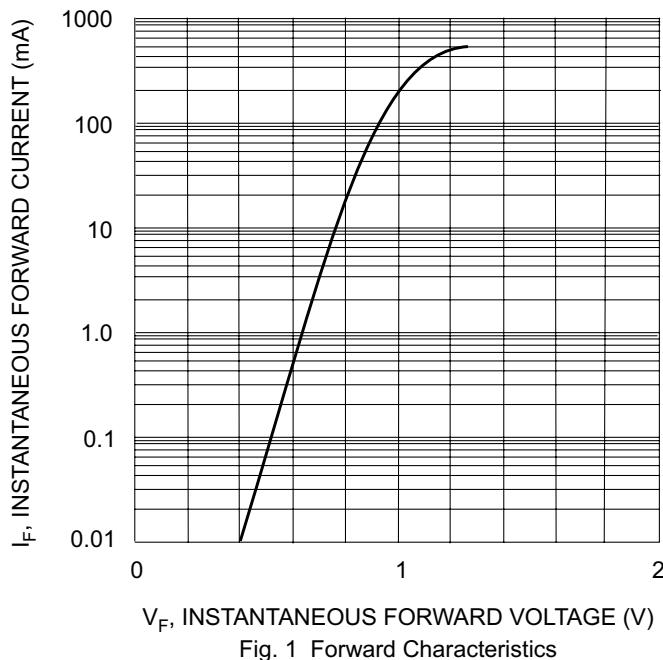
1N4148WX

Fig. 1 Forward Characteristics

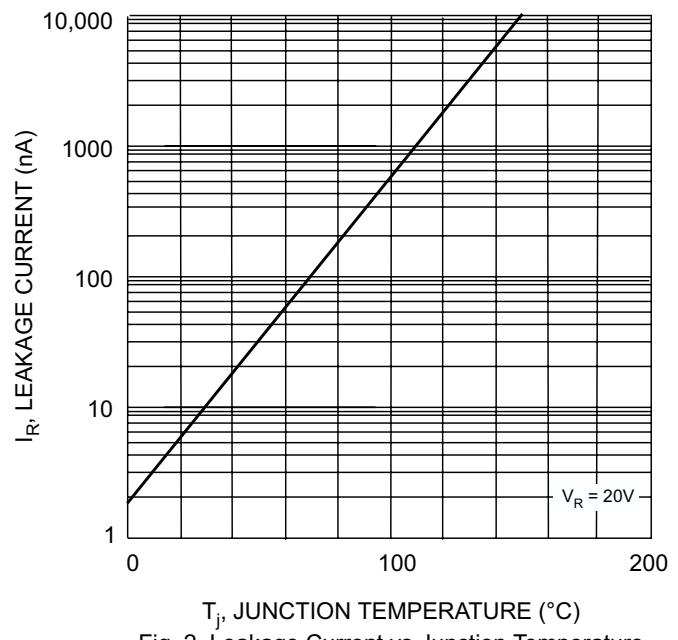


Fig. 2 Leakage Current vs Junction Temperature

TM

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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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