

# 1N4148WXL

## High Speed Switching Diode 200mW

### 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

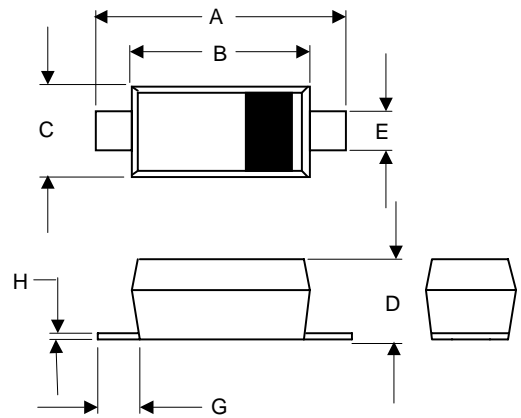
### Mechanical Data

- Marking : T4/S1
- 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 Repetitive Reverse Voltage	$V_{RM}$	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	V
Average Rectified Output Current	$I_o$	150	mA
Peak Forward Surge Current $t=1\mu s$	$I_{FSM}$	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

### SOD-323FL

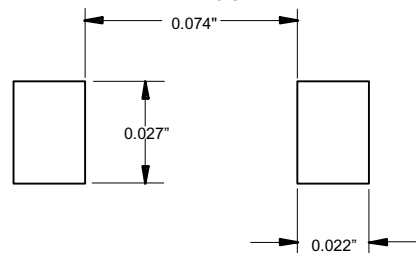


DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.078	1.60	1.95	
C	.045	.053	1.15	1.35	
D	.024	.038	0.60	0.95	
E	.010	.016	0.25	0.40	
G	.016		0.40		
H	.002	.008	0.05	0.21	

### Electrical Characteristics @ 25°C Unless Otherwise Specified

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

### SUGGESTED SOLDER PAD LAYOUT



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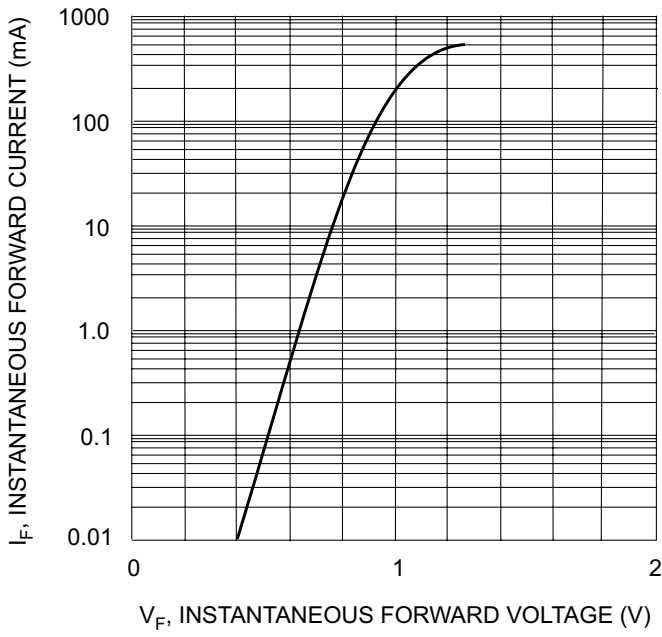


Fig. 1 Forward Characteristics

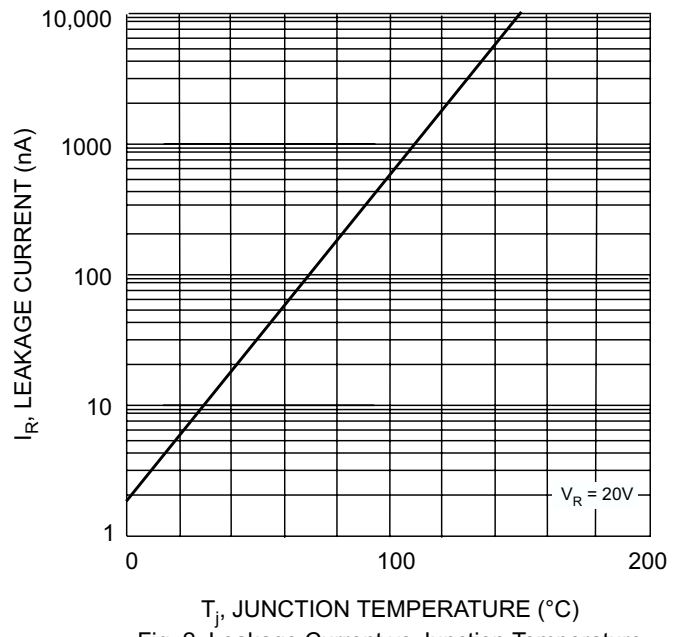


Fig. 2 Leakage Current vs Junction Temperature

**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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