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## **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

# High Speed Switching Diode 200mW

## **Mechanical Data**

Marking : T4/S1

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

Polarity: Indicated by Cathode Band

Weight: 0.008 grams (approx.)

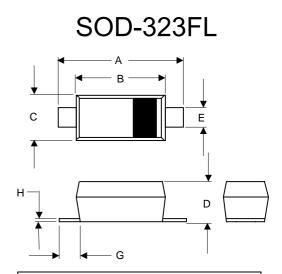
- Moisture Sensitivity: Level 1 per J-STD-020C
- Epoxy meets UL 94 V-0 flammability rating Moisture Sensitivity Level 1

## Maximum Ratings @ 25°C Unless Otherwise Specified

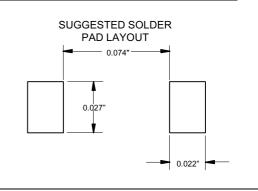
Peak Repetitive Reverse Voltage	$V_{RM}$	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	V
Average Rectified Output Current	l <sub>o</sub>	150	mA
Peak Forward Surge Current t=1us	I <sub>FSM</sub>	2.0	Α
Power Dissipation	$P_{D}$	200	mW
Thermal Resistance	$R_{JA}$	625	K/W
Operation/Storage Temp. Range	$T_{j}$ , $T_{STG}$	-55 to +150	°C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

			<b>-</b>
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	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 <sub>R</sub>	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 <sub>F</sub> =V <sub>R</sub> =0V
Maximum Reverse Recovery Time	T <sub>rr</sub>	4nS	$I_F$ =50mA $I_{rr}$ = 0.1 $I_R$ $R_L$ =100 $\Omega$

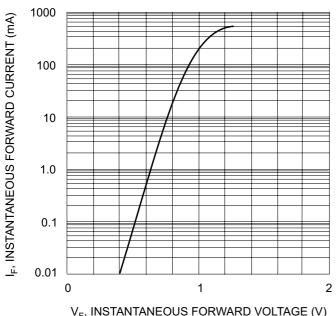


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.078	1.60	1.95	
С	.045	.053	1.15	1.35	
D	.024	.038	0.60	0.95	
Е	.010	.016	0.25	0.40	
G	.016		0.40		
Н	.002	.008	0.05	0.21	



## 1N4148WXL





10,000 100 100 200

V<sub>F</sub>, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Characteristics

 $T_{j}$ , JUNCTION TEMPERATURE (°C) 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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