

**Micro Commercial Components** 

Pb

Micro Commercial Components 20736 Marilla Street Chatsworth

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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

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

Polarity: Indicated by Cathode Band

Weight: 0.008 grams (approx.)

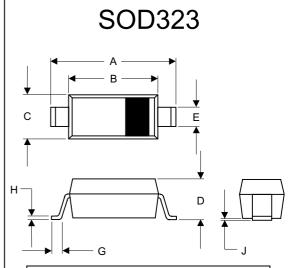
- Moisture Sensitivity: Level 1 per J-STD-020C
- Epoxy meets UL 94 V-0 flammability rating Moisture Sensitivity Level 1

## Maximum Ratings @ 25°C Unless Otherwise Specified

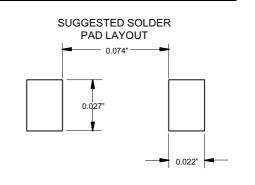
Peak Reverse Voltage	$V_{RM}$	100	V
Reverse Voltage	$V_R$	75	V
Average Rectified Output Current	l <sub>o</sub>	150	mA
Peak Forward Surge Current t=1us	$I_{FSM}$	2.0	Α
Power Dissipation	$P_{D}$	200	mW
Thermal Resistance	$R_{JA}$	625	K/W
Operation/Storage Temp. Range	$T_j$ , $T_{STG}$	-55 to +150	°C

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

Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.0V	I <sub>F</sub> = 50mA; T <sub>J</sub> = 25°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	$I_F=50\text{mA}$ $I_{rr}=0.1I_R$ $R_L=100\Omega$

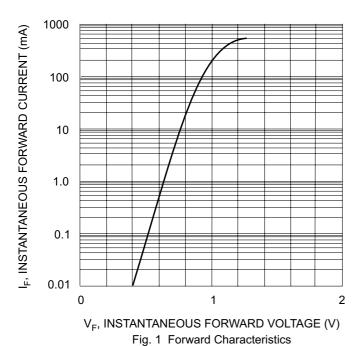


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.003	.010	0.08	0.25	
J		.006		0.15	





# 1N4148WX



10,000 (W) 1000 100 100 200

T<sub>j</sub>, JUNCTION TEMPERATURE (°C) Fig. 2 Leakage Current vs Junction Temperature



#### **Micro Commercial Components**

### 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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