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## Features

- Halogen free available upon request by adding suffix "-HF"
- Fast switching speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For general purpose switching applications
- High conductance
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

## **Mechanical Data**

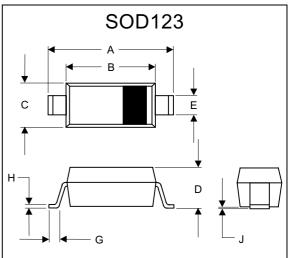
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.01 grams (approx.)
- Marking Code: T4,A2

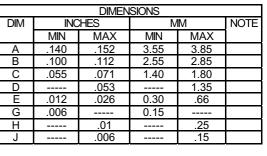
## **Absolute maximum Ratings**

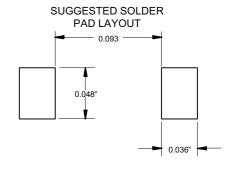
Symbol	Parameter	Rating	Unit
V <sub>RM</sub>	Peak Repetitive Reverse Voltage	100	V
V <sub>R</sub>	DC Reverse Blocking Voltage	100	V
VR( <sub>RMS)</sub>	RMS Reverse Voltage	71	V
FM	Peak Forward Current	300	mA
l <sub>o</sub>	Average Rectified Output Current	150	mA
I <sub>FSM</sub>	Forward Surge Current @1µs @1s	2 1	А
PD	Power Dissipation	400	mW
R₀ <sub>ja</sub>	Thermal Resistance Junction to Ambient	312.5	°C/W
TJ	Operating Junction Temperature	-65 to +150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C



1N4148W







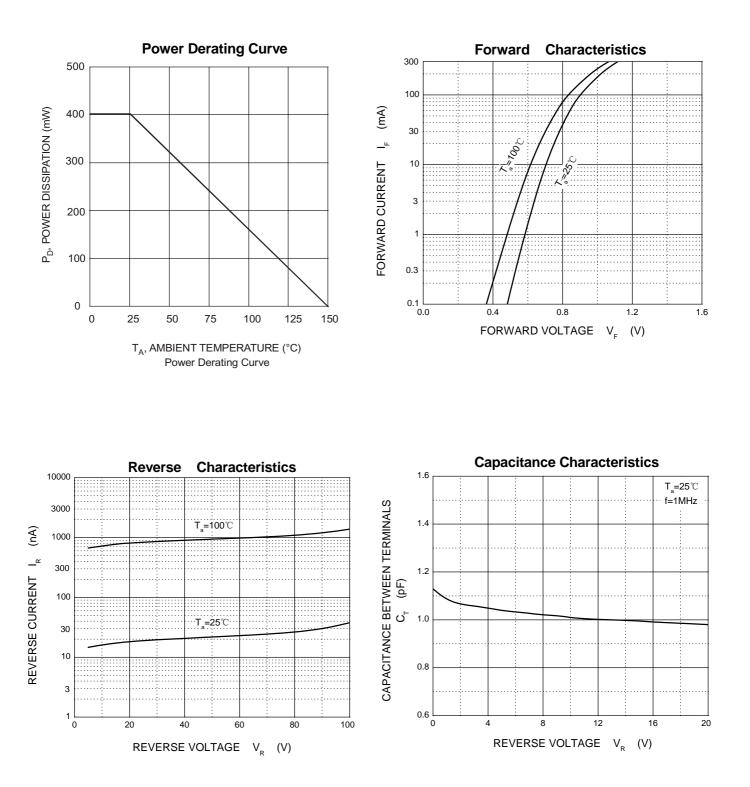
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units		
OFF CHARACTERISTICS						
V <sub>F</sub>	Forward Voltage Drop $(I_F=1mAdc)$ $(I_F=10mAdc)$ $(I_F=50mAdc)$ $(I_F=150mAdc)$		0.715 0.855 1.00 1.25	Vdc		
I <sub>R</sub>	Reverse Current (V <sub>R</sub> =75Vdc,T=25℃) (V <sub>R</sub> =20Vdc,T=25℃) (V <sub>R</sub> =75Vdc,T=150℃)		1.0 0.025 50	µAdc		
C <sub>T</sub>	Total Capacitance (V <sub>R</sub> =0Vdc, f=1.0MHz)		2.0	pF		
Trr	Reverse Recovery Time (Irr=0.1*I <sub>R</sub> , I <sub>F</sub> =I <sub>R</sub> 10mAdc, R <sub>L</sub> =100 Ω )		4.0	ns		

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2 of 3



### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

#### **\*\*\*IMPORTANT NOTICE\*\*\***

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