

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

## 1N4148W

## **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)

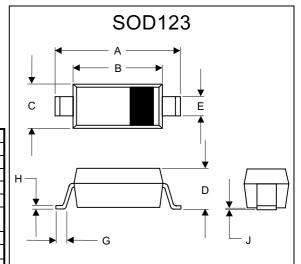
# High Speed Switching Diode 400mW

## **Mechanical Data**

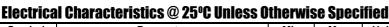
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.01 grams (approx.)
- Marking Code: T4,A2

## **Absolute maximum Ratings**

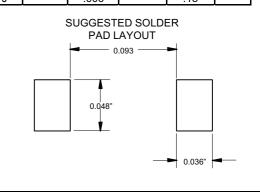
Symbol	Parameter	Rating	Unit	
$V_{RM}$	Peak Repetitive Reverse Voltage	100 V		
$V_R$	DC Reverse Blocking Voltage	100 V		
VR( <sub>RMS)</sub>	RMS Reverse Voltage	71	V	
I <sub>FM</sub>	Peak Forward Current	300	mA	
Io	Average Rectified Output Current	150	mA	
	Forward Surge Current @1us	2	Α	
I <sub>FSM</sub>	@1s	1	A	
P <sub>D</sub>	Power Dissipation	400	mW	
R <sub>⊕ja</sub>	Thermal Resistance Junction to Ambient	312.5	°C/W	
T <sub>J</sub>	Operating Junction Temperature	-65 to +150	°C	
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C	



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.140	.152	3.55	3.85		
В	.100	.112	2.55	2.85		
С	.055	.071	1.40	1.80		
D		.053		1.35		
Е	.012	.026	0.30	.66		
G	.006		0.15			
Н		.01		.25		
J		006		.15		

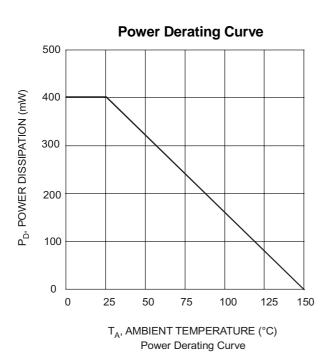


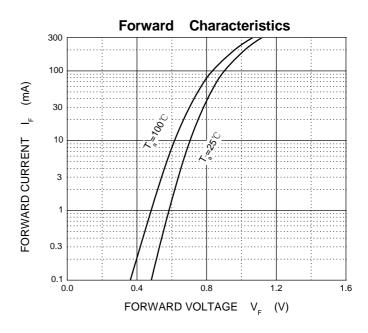
Symbol	Parameter	Min	Max	Units		
OFF CHARACTERISTICS						
V <sub>F</sub>	Forward Voltage Drop (I <sub>F</sub> =1mAdc) (I <sub>F</sub> =10mAdc) (I <sub>F</sub> =50mAdc) (I <sub>F</sub> =150mAdc)	  	0.715 0.855 1.00 1.25	Vdc		
I <sub>R</sub>	Reverse Current $(V_R=75Vdc,T=25^{\circ}C)$ $(V_R=20Vdc,T=25^{\circ}C)$ $(V_R=75Vdc,T=150^{\circ}C)$	 	1.0 0.025 50	uAdc		
Ст	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 $\Omega$ )		4.0	ns		

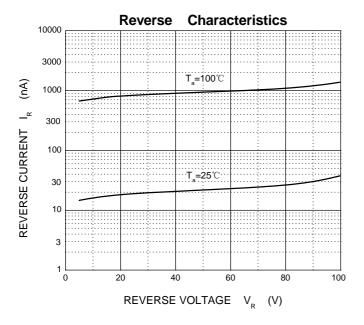


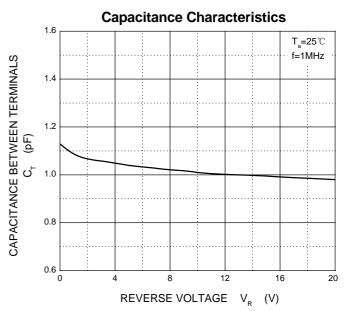


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### Ordering Information:

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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