

**Micro Commercial Components** 



**Micro Commercial Components** 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

### **Features**

- Halogen free available upon request by adding suffix "-HF"
- Fast Switching Speed
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion Lead Free Finish/RoHS Compliant("P" Suffix
- designates RoHS Compliant. See ordering information)

### **Mechanical Data**

- Marking Code: T4
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### **Maximum Ratings**

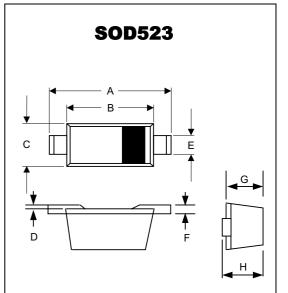
Symbol	Parameter	Rating	Unit
V <sub>RM</sub>	Non-Repetitive Peak Reverse Voltage	100	V
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	75	V
V <sub>R(RMS)</sub>	RMS Reverse Voltage	53	V
I <sub>FM</sub>	Forward Continuous Current	300	mA
l <sub>o</sub>	Average Rectified Output Current	150	mA
I <sub>FSM</sub>	Peak Forward Surge Current @1.0 µ s @1.0s	2.0 1.0	А
R ₀ JA	Thermal Resistance Junction to Ambient	625	°C/W
PD	Power dissipation	200	mW
$T_J$ , $T_STG$	Operating and Storage Junction Temperature	-65 to +150	°C

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

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	75V		I <sub>R</sub> =10 μ A
I <sub>R</sub>	Reverse Voltage Leakage Current		1.0 µ A 25nA	V <sub>R</sub> =75V V <sub>R</sub> =20V
V <sub>F</sub>	Forward Voltage	  	0.715V 0.855V 1.0V 1.25V	I <sub>F</sub> =1mA I <sub>F</sub> =10mA I <sub>F</sub> =100mA I <sub>F</sub> =150mA
CT	Total Capacitance		2.0pF	V <sub>R</sub> =0V, f=1MHZ
t <sub>rr</sub>	Reverse Recovery Time		4.0ns	I <sub>R</sub> =I <sub>F</sub> =10mA, R <sub>L</sub> =100 Ω , Rec. to 1.0mA

## 1N4148X

### 200mW **Switching Diodes**

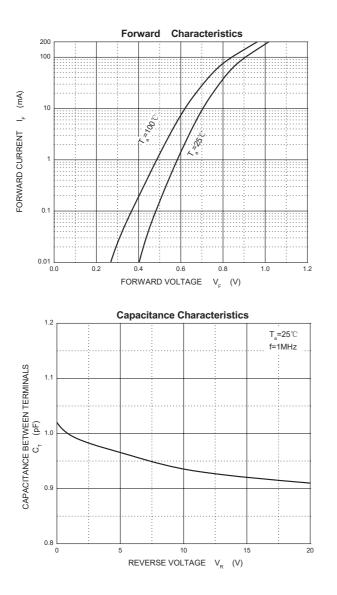


	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.043	.051	1.10	1.30	
С	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
Е	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
Н	.020	.031	0.51	0.77	

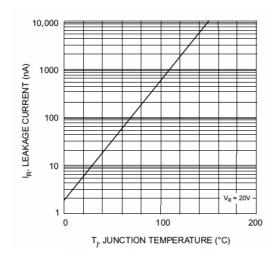
## www.mccsemi.com

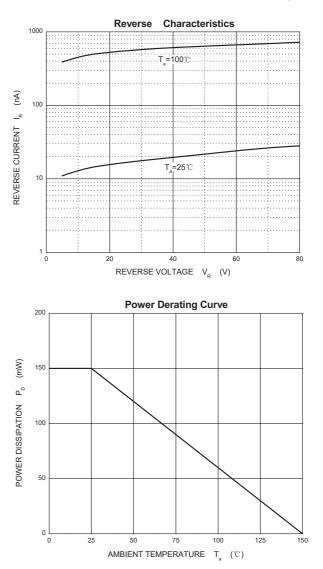
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Leakage Current vs Junction Temperature





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### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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

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