

Micro Commercial Components



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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

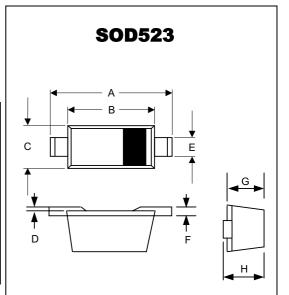
Symbol	Parameter	Rating	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	75	V
V _{R(RMS)}	RMS Reverse Voltage	53	V
I _{FM}	Forward Continuous Current	300	mA
lo	Average Rectified Output Current	150	mA
I _{FSM}	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 _R =10 μ A
I _R	Reverse Voltage Leakage Current		1.0 µ A 25nA	V _R =75V V _R =20V
V _F	Forward Voltage	 	0.715V 0.855V 1.0V 1.25V	I _F =1mA I _F =10mA I _F =100mA I _F =150mA
CT	Total Capacitance		2.0pF	V _R =0V, f=1MHZ
t _{rr}	Reverse Recovery Time		4.0ns	I _R =I _F =10mA, R _L =100 Ω, Rec. to 1.0mA

1N4148X

200mW **Switching Diodes**

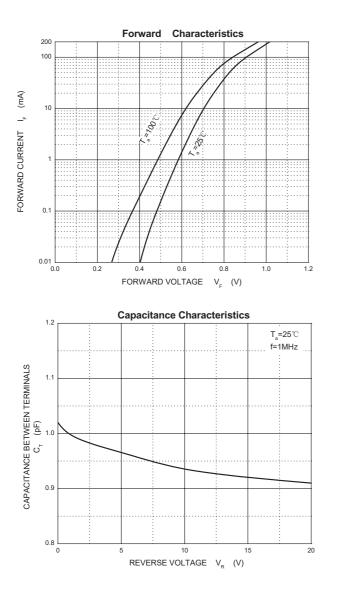


	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.043	.051	1.10	1.30	
С	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
Е	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
Н	.020	.031	0.51	0.77	

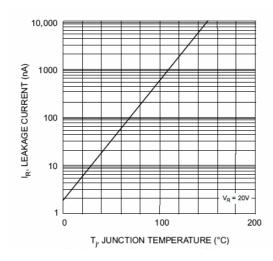
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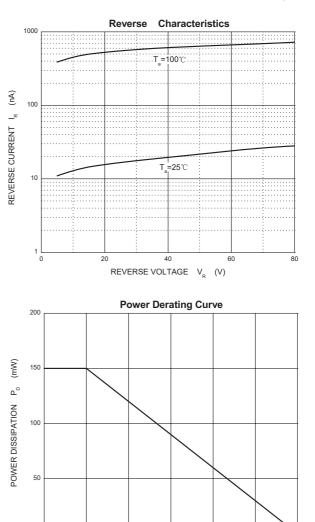
1N4148X





Leakage Current vs Junction Temperature





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0 L

25

50

75

AMBIENT TEMPERATURE T_a (°C)

125

100

150



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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