

Features

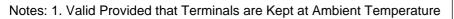
- Fast Switching Speed
- High Conductance
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

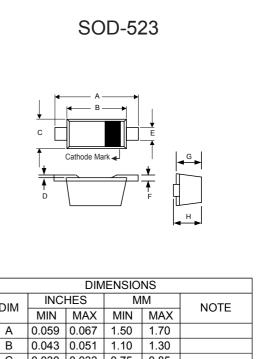
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

MCC Part Number	Device Marking		
1N4448X	Т5		

Parameter	Symbol	Value	
Non-Repetitive Peak Reverse Voltage	V _{RM}	100V	
DC Reverse Voltage	V _R	75V	
Peak Repetitive Reverse Voltage	V _{RRM}	75V	
Working Inverse Voltage	V _{RWM}	75V	
RMS Reverse Voltage	V _{R(RMS)}	53V	
Forward Continuous Current (Note 1)	I _{FM}	500mA	
Average Forward Current	I _{F(AV)}	250mA	
Peak Forward Surge Current (t=1s)	-	2A	
(t=1µs)	I _{FSM}	4A	
Power Dissipation	P _D	150mW	

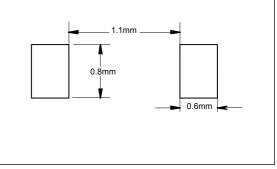


200mW High Speed Switching Diode



DIMENSIONS					
DIM	INC	HES	MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
D	0.001	0.003	0.01	0.07	
E	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.028	0.50	0.70	
Н	0.020	0.031	0.51	0.77	

Suggested Solder Pad Layout





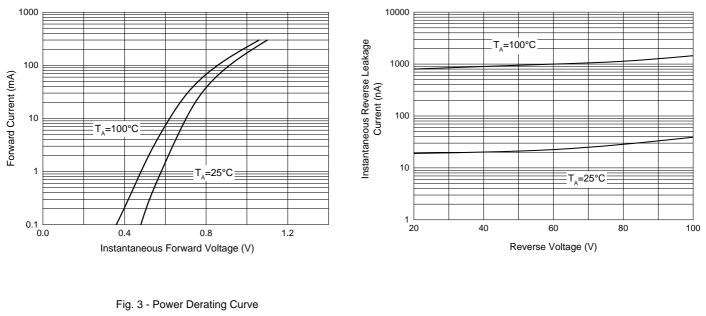
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units													
Forward Voltage	V _F	I _F =5mA	0.62		0.72	V													
		I _F =10mA			0.855	V													
		I _F =100mA			1	V													
		I _F =150mA			1.25	V													
	I _R	V _R =20V			25	nA													
		V _R =75V			2.5	μA													
Reverse Current		I'R	R	'R	'R	R	'R	V _R =25V, T _J =150°C			30								
		V _R =75V, T _J =150°C			50	μA													
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			4	pF													
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			4	ns													

* Pulse Test: Pulse Width 300 $\mu sec,$ Duty Cycle 2%



Curve Characteristics



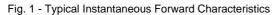
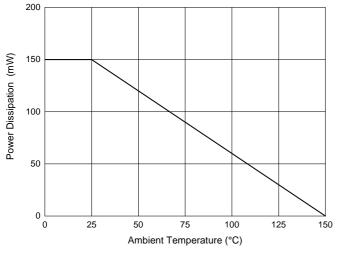


Fig. 2 - Typical Reverse Leakage Characteristics





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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