

Micro Commercial Components



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

1N4448W

Features

- 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: T5
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Maximum Ratings @ 25°C Unless Otherwise Specified

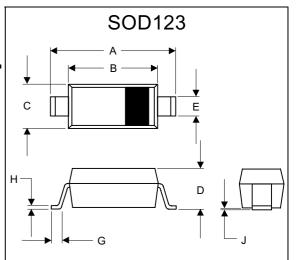
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Average Rectified Current	Ь	250	mA
Peak Forward Surge Current	I _{FSM}	2	А
Power Dissipation	PD	500	mW
Thermal Resistance*	Rthja	250	°C/W
Operation/Storage Temp.	T _j , T _{STG}	-55 to +150	°C
Range	-		

Electrical Characteristics @ 25°C Unless Otherwise Specified

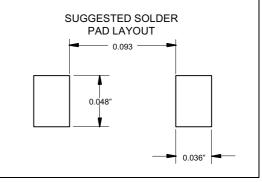
Maximum Instantaneous Forward Voltage	VF	1.0V	I _{FM} = 100mA; T _J = 25°C (Note 1)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	25nA 50μA 2.5uA	$V_{R}=20 \text{Volts}$ $T_{J}=25^{\circ}\text{C}$ $T_{J}=150^{\circ}\text{C}$ $V_{R}=75 \text{Volts}$
Typical Junction Capacitance	CJ	4pF	Measured at 1.0MHz, V _R =4.0V
Reverse Recovery Time	T _{rr}	4nS	I_F =10mA V_R = 6V R_L =100 Ω

Note: 1. Valid provided that terminals are kept at ambient temperature

500mW 100 Volts Switching Diode



DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
А	.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	.031	0.30	.78		
G	.006		0.15			
Н		.01		.25		
J		.006		.15		

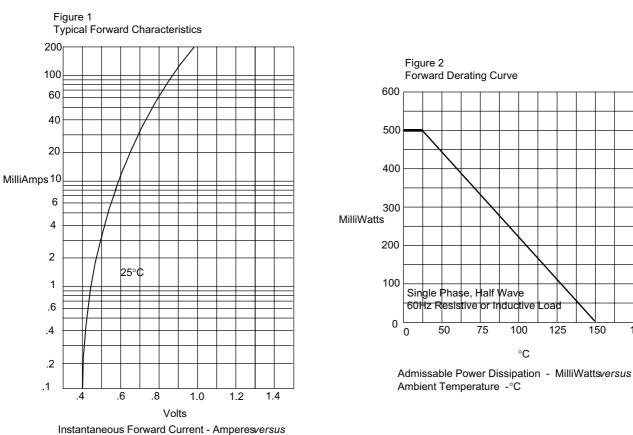


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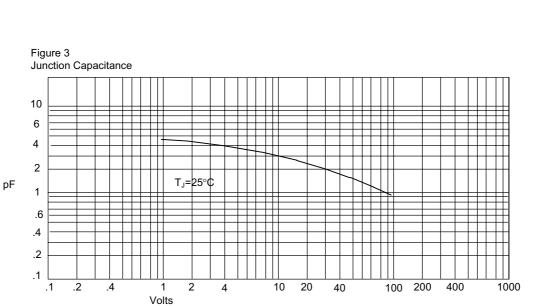


150

175



Instantaneous Forward Voltage - Volts

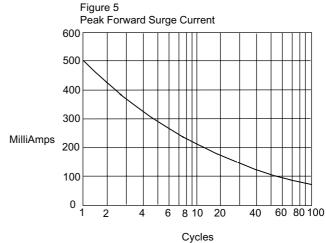


Junction Capacitance - pFversus Reverse Voltage - Volts

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Instantaneous Reverse Leakage Current - NanoAmperes/ersus Junction Temperature - $^\circ\text{C}$



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Ordering Information

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

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