

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

Mechanical Data

- Marking Code: T5
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

Maximum Ratings @ 25°C Unless Otherwise Specified

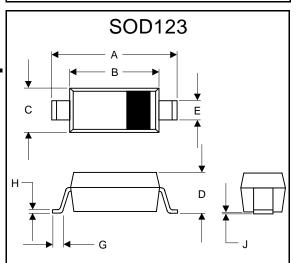
3			
Reverse Voltage	V _R	75	V
Peak Reverse Voltage	V _{RM}	100	V
Average Rectified Current	م	250	mA
Peak Forward Surge Current	I _{FSM}	2	А
Power Dissipation	PD	500	mW
Thermal Resistance*	R	35	°C/W
Operation/Storage Temp.	T _j , T _{STG}	-55 to +150	°C
Range			

Electrical Characteristics @ 25°C Unless Otherwise Specified

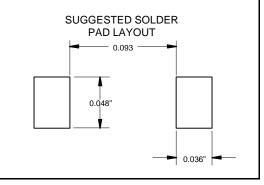
Maximum Instantaneous Forward Voltage	V _F	1.0V	$I_{FM} = 100mA;$ $T_J = 25^{\circ}C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	25nA 50μA 5uA	V_R =20Volts $T_J = 25^{\circ}C$ $T_J = 150^{\circ}C$ V_R =75Volts
Typical Junction Capacitance	CJ	4pF	Measured at 1.0MHz, V _R =4.0V
Reverse Recovery Time	T _{rr}	4nS	$I_{F}=10mA$ $V_{R} = 6V$ $R_{L}=100\Omega$

* Valid provided that terminals are kept at ambient temperature

500mW 100 Volts Switching Diode



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				
E	.012	.031	0.30	.78				
G	.006		0.15					
Н		.01		.25				
J		.006		.15				



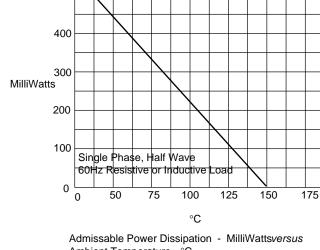
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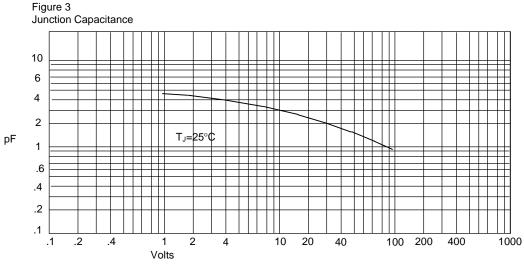
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Figure 1 Typical Forward Characteristics 200₁ Figure 2 100 Forward Derating Curve 600 60 40 500 20 400 MilliAmps10 6 300 MilliWatts 4 200 2 25°¢ 100 1 Single Phase, Half Wave 60Hz Resistive or Inductive .6 0 .4 50 75 100 0 °C .2 .1 Ambient Temperature -°C .4 .6 .8 1.0 1.2 1.4 Volts

Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts





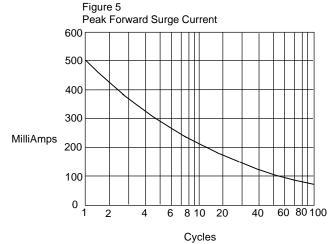
Junction Capacitance - pFversus Reverse Voltage - Volts

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Instantaneous Reverse Leakage Current - NanoAmperes/ersus Junction Temperature -°C



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

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