

Micro Commercial Components

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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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

Maximum Ratings @ 25°C Unless Otherwise Specified

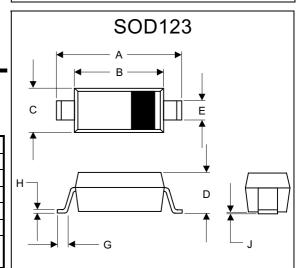
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	100	V
Average Rectified Current	Ь	250	mA
Peak Forward Surge Current	I _{FSM}	2	Α
Power Dissipation	P_{D}	500	mW
Thermal Resistance*	R	35	°C/W
Operation/Storage Temp.	T_i , T_{STG}	-55 to +150	°C
Range	,		

Electrical Characteristics @ 25°C Unless Otherwise Specified

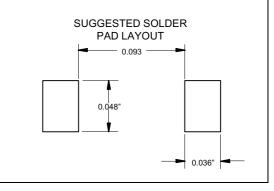
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} = 100mA; T _J = 25°C (Note 1)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	25nA 50μA 2.5uA	V_R =20Volts T_J = 25°C T_J = 150°C V_R =75Volts
Typical Junction Capacitance	CJ	4pF	Measured at 1.0MHz, V _R =4.0V
Reverse Recovery Time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

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

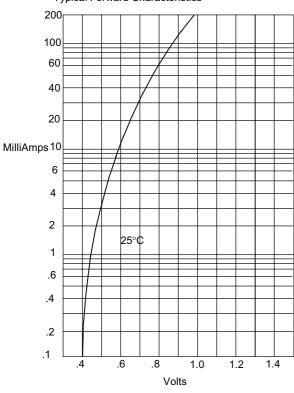


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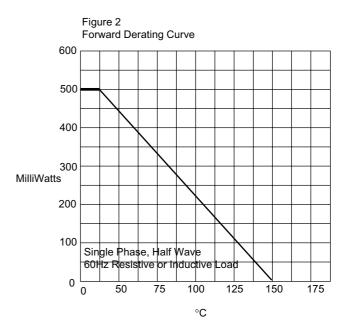


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Figure 1
Typical Forward Characteristics

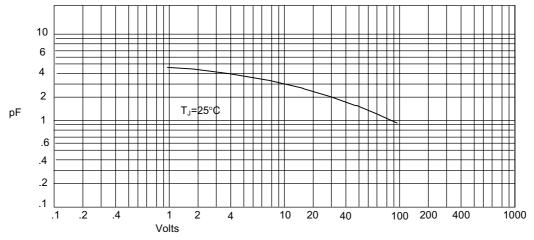


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts



Admissable Power Dissipation - MilliWattsversus Ambient Temperature -°C

Figure 3 Junction Capacitance

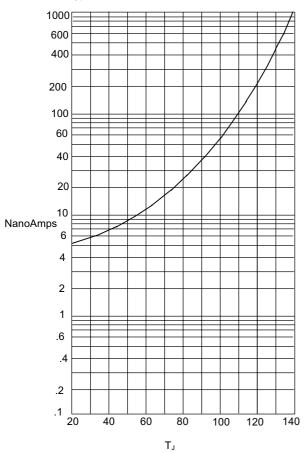


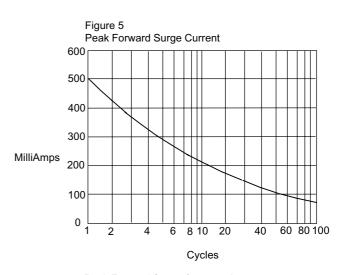
Junction Capacitance - pF*versus* Reverse Voltage - Volts

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Figure 4
Typical Reverse Characteristics





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

T_A=25°C T_A=100°C

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



Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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