NOT RECOMMENDED FOR NEW DESIGNS
USE 1N4448W-TP

·M·C·C·

Micro Commercial Components

🍃 **RoHS**
COMPLIANT

Micro Commercial Components
20736 Marilla Street Chatsworth
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Phone: (818) 701-4933
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DL4448

Features

- Low Current Leakage
- Metalurgically Bonded Construction
- Low Cost
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates Compliant. See ordering information)

500mW 100Volt Switching Diode

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance; 35 °C/W Junction To Ambient
- Epoxy meets UL 94 V-0 flammability rating
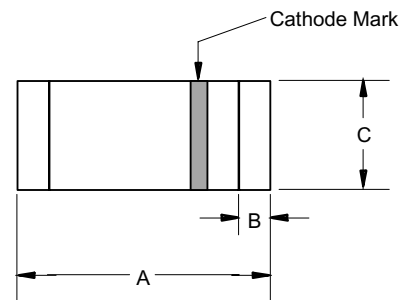- Moisture Sensitivity Level 1

MINIMELF

Cathode Mark

Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Voltage	V_R	75V	
Peak Reverse Voltage	V_{RM}	100V	
Average Rectified Current	I_O	150mA	Resistive Load f > 50Hz
Power Dissipation	P_{TOT}	500mW	
Junction Temperature	T_J	200°C	
Peak Forward Surge Current	I_{FSM}	500mA	t<1s
Instantaneous Forward Voltage	V_F	1.0V(MAX) 0.62-0.72V	I_{FM} = 100mA; I_{FM} = 5.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25nA 5.0µA 50µA	V_R=20Volts T_J=25°C V_R=75V T_J=150°C V_R=20V
Typical Junction Capacitance	C_J	4pF	Measured at 1.0MHz, V_R=4.0V
Reverse Recovery Time	T_{rr}	4nS	I_F=10mA V_R = 6V R_L=100Ω

Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 5.

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.130	.146	3.30	3.70	
B	.008	.016	.20	.40	
C	.055	.059	1.40	1.50	∅

SUGGESTED SOLDER
PAD LAYOUT

0.105

0.075"

0.030"

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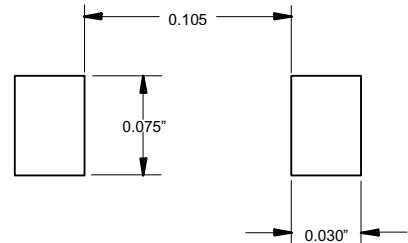
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Figure 1
Typical Forward Characteristics

MilliAmps

25°C

Volts

Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts
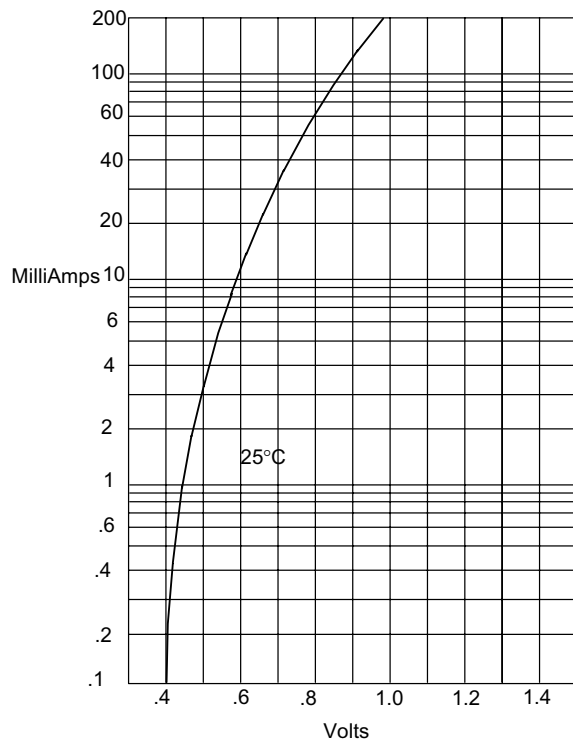
Figure 2
Forward Derating Curve

MilliWatts

Single Phase, Half Wave
60Hz Resistive or Inductive Load

°C

Average Forward Rectified Current - Amperes/ersus

Ambient Temperature -^{o}C
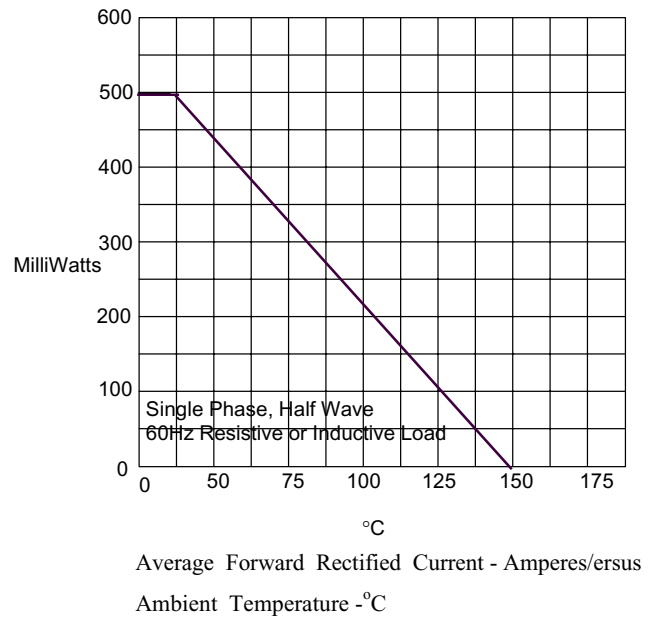
Figure 3
Junction Capacitance

pF

T_J=25°C

Volts

Junction Capacitance - pF *versus*
Reverse Voltage - Volts
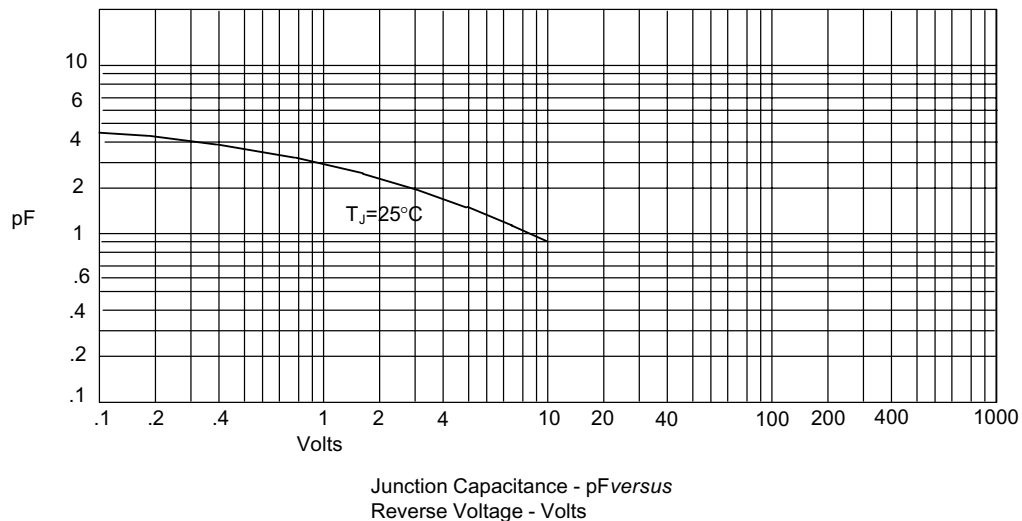
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Figure 4
Typical Reverse Characteristics

NanoAmps

T$_J$
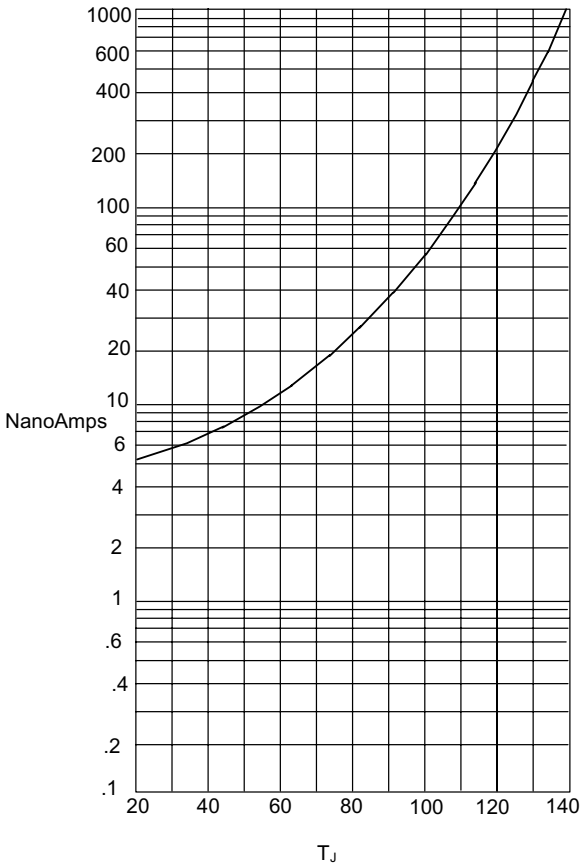
Instantaneous Reverse Leakage Current - NanoAmperes *versus*
Junction Temperature - °C

Figure 5
Peak Forward Surge Current

MilliAmps
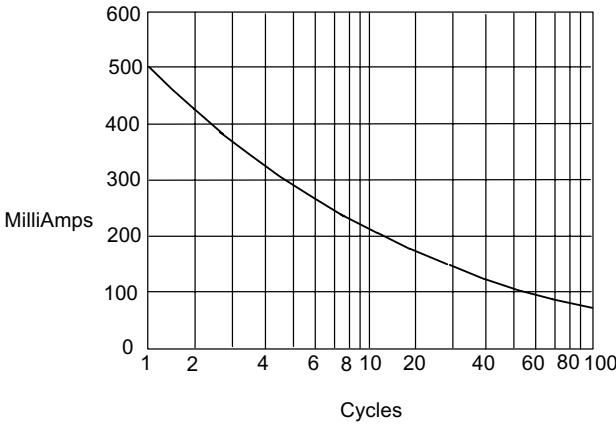
Cycles

Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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