



Micro Commercial Components



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

1N4448W

500mW 100 Volts
Switching Diode

Features

- Halogen free available upon request by adding suffix "-HF"
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

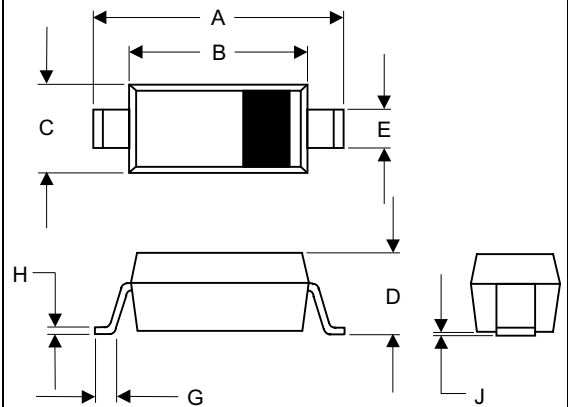
Table with 4 columns: Parameter, Symbol, Value, Units. Rows include Reverse Voltage, Peak Reverse Voltage, Average Rectified Current, Peak Forward Surge Current, Power Dissipation, Thermal Resistance, and Operation/Storage Temp. Range.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, Conditions. Rows include Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current At Rated DC Blocking Voltage, Typical Junction Capacitance, and Reverse Recovery Time.

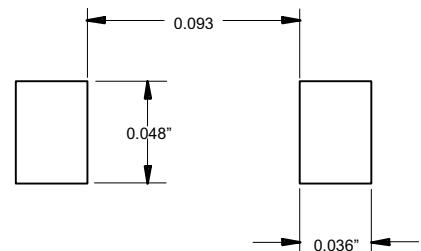
Note: 1. Valid provided that terminals are kept at ambient temperature

SOD123



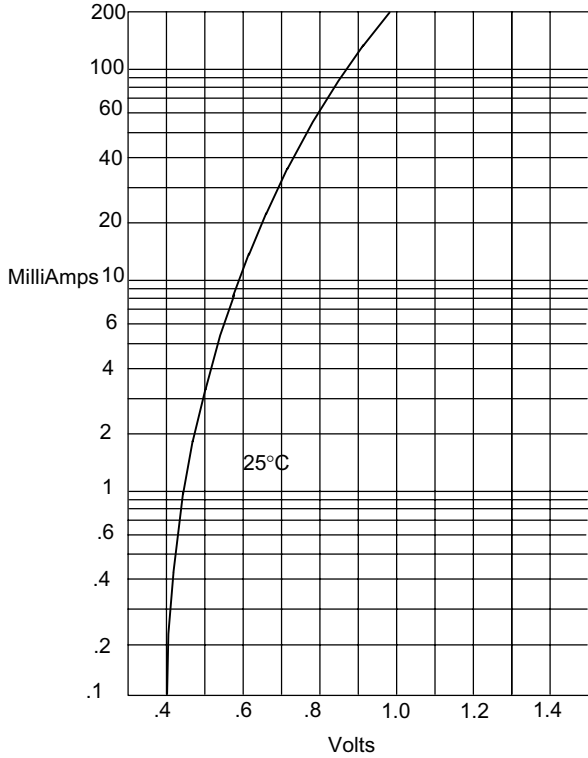
DIMENSIONS table with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A through J correspond to dimensions in the diagram.

SUGGESTED SOLDER PAD LAYOUT



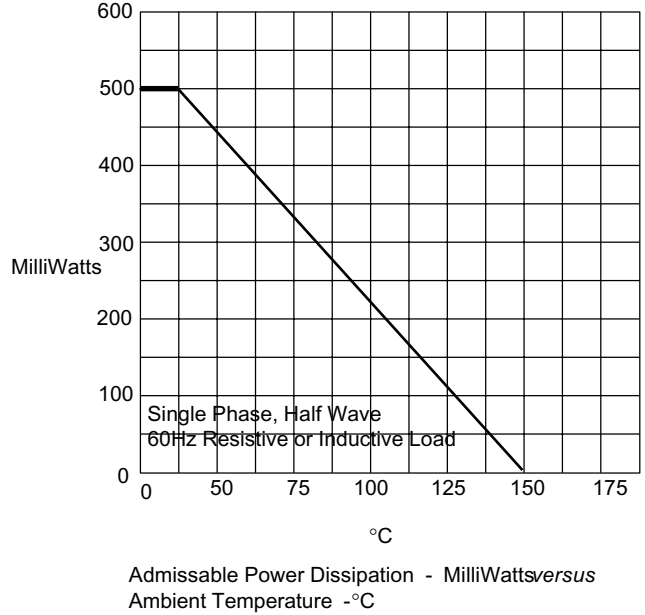
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Figure 1  
Typical Forward Characteristics



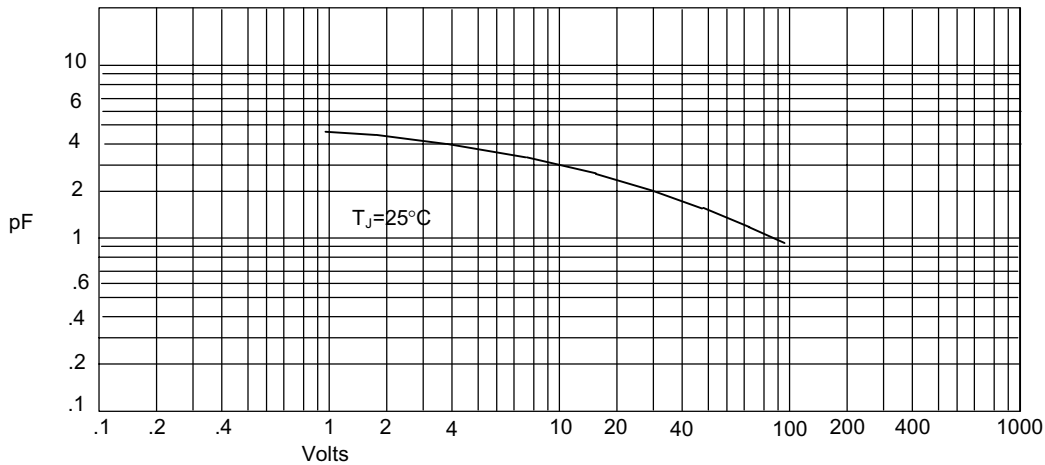
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



Admissible Power Dissipation - MilliWatts *versus*  
Ambient Temperature - °C

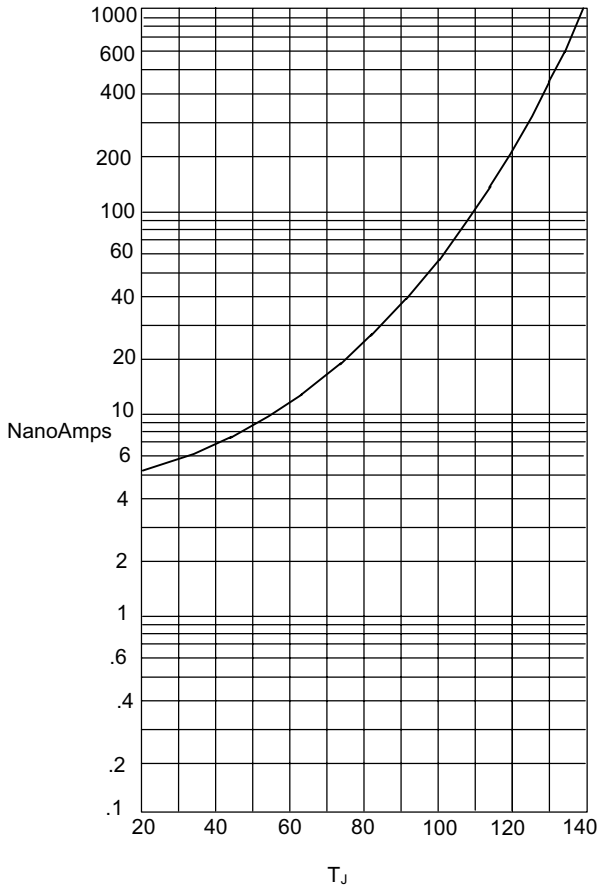
Figure 3  
Junction Capacitance



Junction Capacitance - pF *versus*  
Reverse Voltage - Volts

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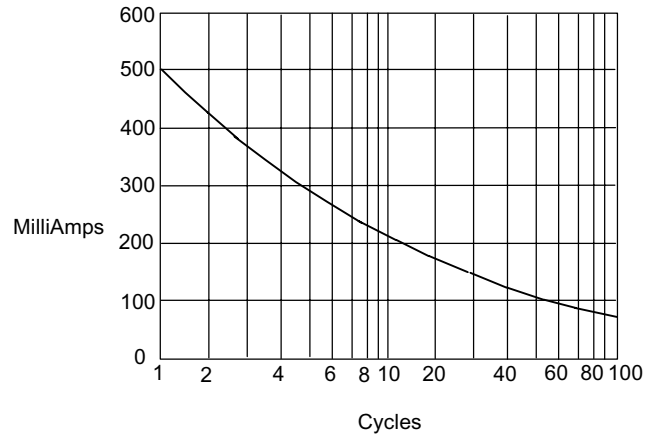
Figure 4  
Typical Reverse Characteristics



T<sub>A</sub>=25°C  
T<sub>A</sub>=100°C

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

Figure 5  
Peak Forward Surge Current



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



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## Ordering Information

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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