



Micro Commercial Components



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1N4448

500mW 100Volt
Switching Diode

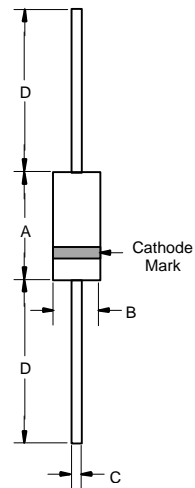
Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
Low Current Leakage
Metalurgically Bonded Construction
Low Cost
Marking : Cathode band and type number
Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
Storage Temperature: -55°C to +150°C
Maximum Thermal Resistance; 35°C/W Junction To Ambient

DO-35



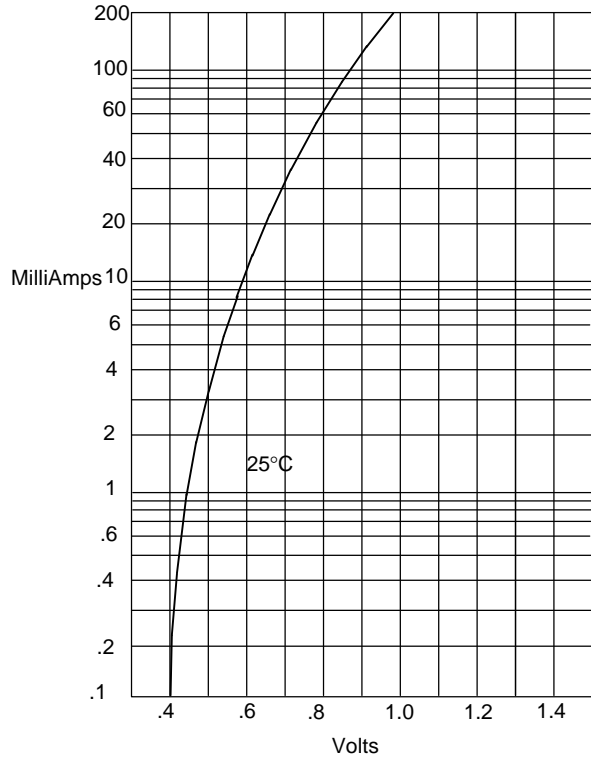
Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, and Notes. Rows include Reverse Voltage, Peak Reverse Voltage, Average Rectified Current, Power Dissipation, Junction Temperature, Peak Forward Surge Current, Instantaneous Forward Voltage, Maximum DC Reverse Current, Typical Junction Capacitance, and Reverse Recovery Time.

Table titled 'DIMENSIONS' with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, C, and D correspond to dimensions in the diagram.

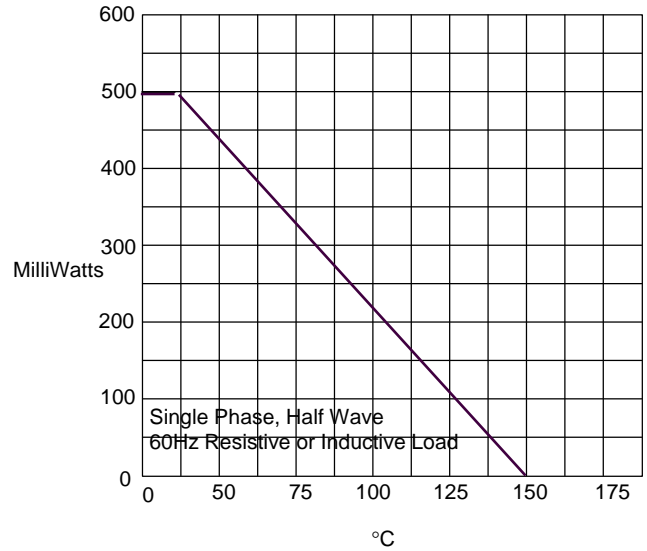
\*Pulse test: Pulse width 300 µsec, Duty cycle 2%
Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

Figure 1  
Typical Forward Characteristics



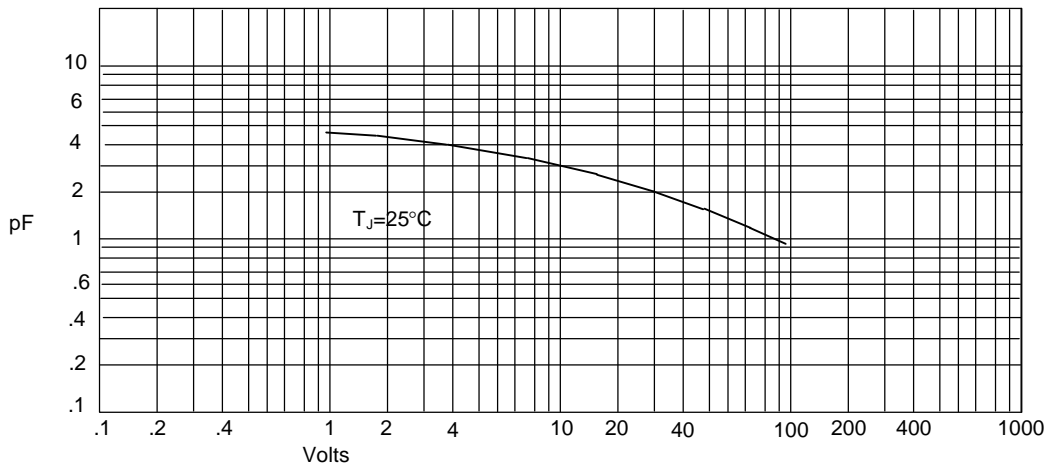
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



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

Figure 3  
Junction Capacitance



Junction Capacitance - pF *versus*  
Reverse Voltage - Volts

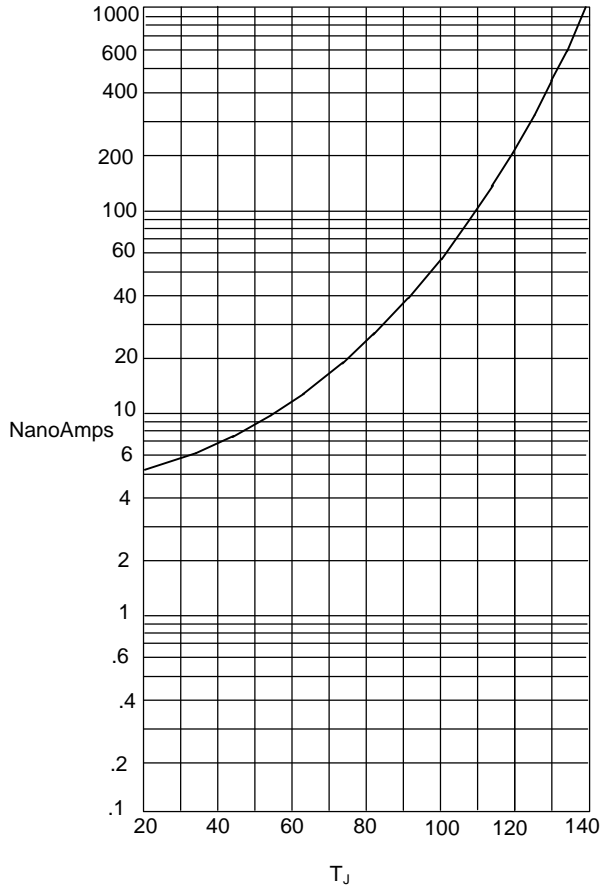
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TM

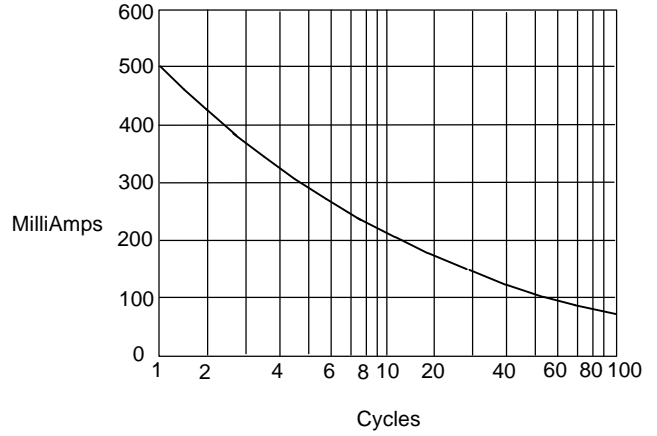
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Figure 4  
Typical Reverse Characteristics



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: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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