



Micro Commercial Components



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

1N4454

400mW 75 Volt
Silicon Epitaxial Diode

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
Low Current Leakage
Compression Bond 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; 400K/W Junction To Ambient

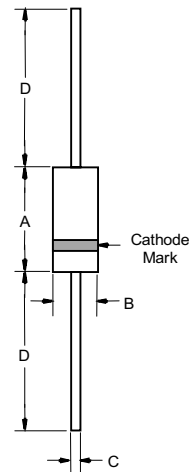
Electrical Characteristics @ 25°C Unless Otherwise Specified

Table with 4 columns: Parameter, Symbol, Value, and Notes. Rows include Reverse Voltage (50V), Peak Reverse Voltage (75V), Average Rectified Current (150mA), Power Dissipation (400mW), Maximum Junction Temperature (150°C), Peak Forward Surge Current (400mA), Maximum Instantaneous Forward Voltage (1.0V), Maximum DC Reverse Current (100nA), Typical Junction Capacitance (4.0pF), and Reverse Recovery Time (4.0nS).

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

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

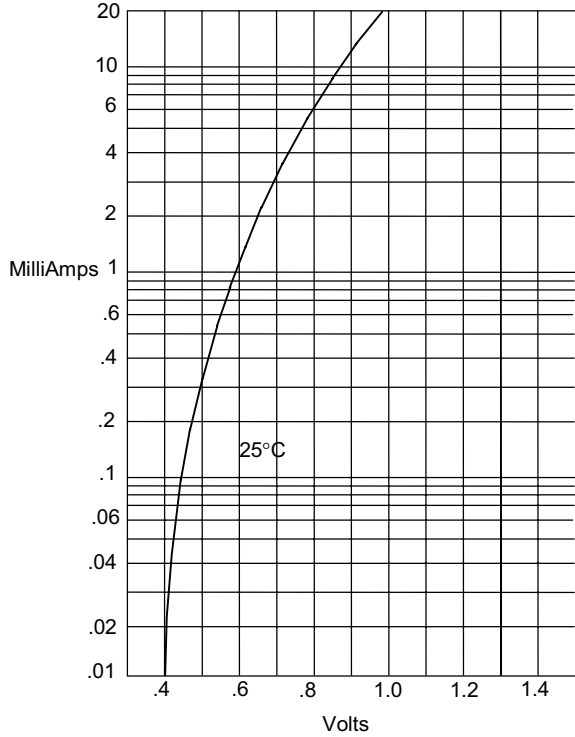
DO-35



DIMENSIONS table with columns for DIM, INCHES (MIN, MAX), MM (MIN, MAX), and NOTE. Rows A, B, C, and D provide specific dimension values.

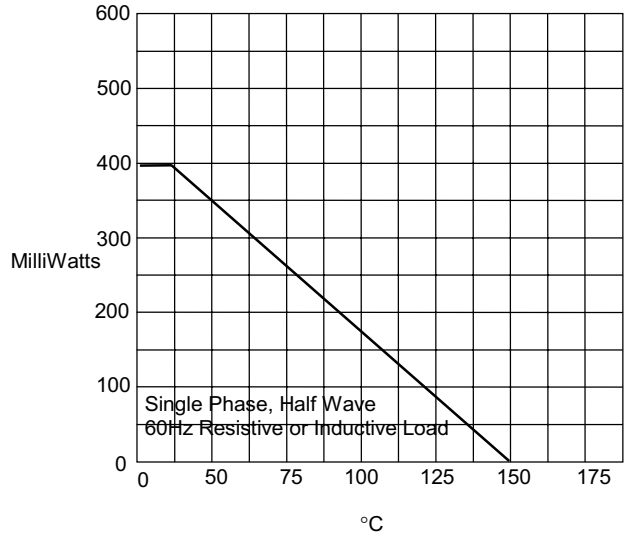
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Figure 1
Typical Forward Characteristics



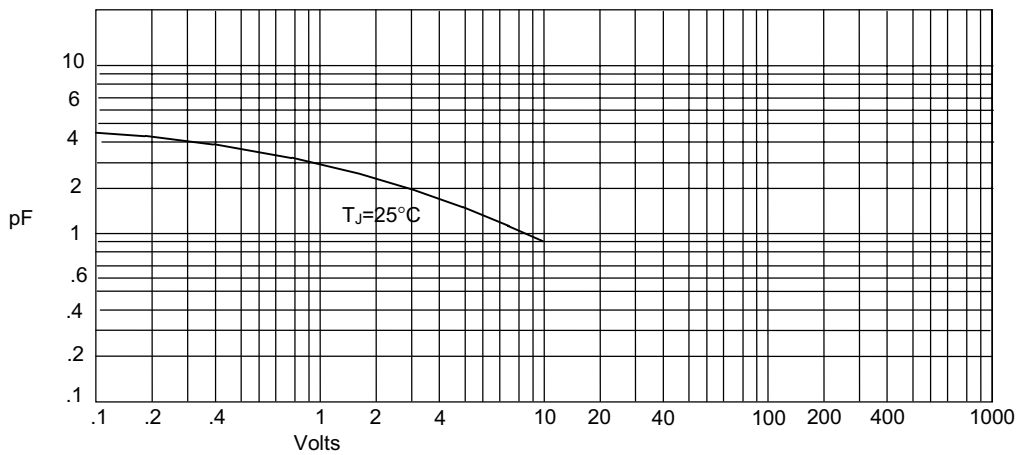
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Junction Capacitance



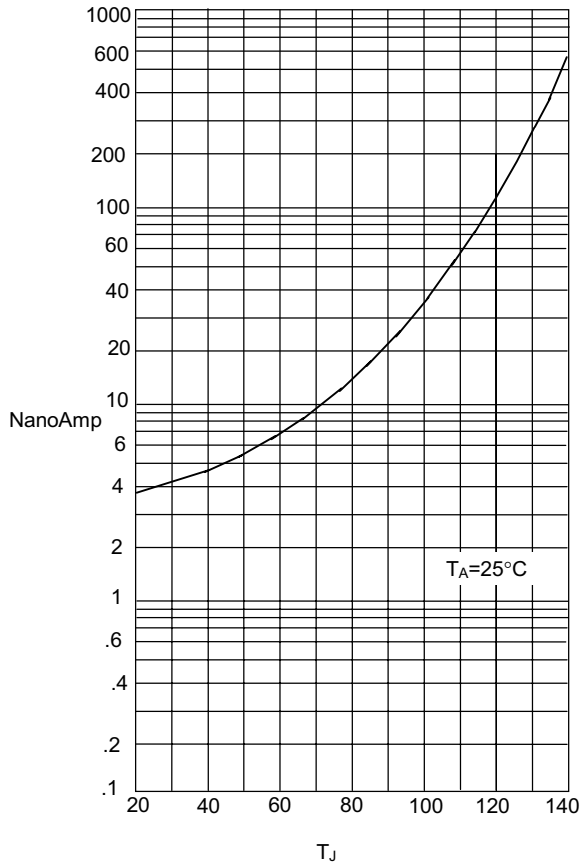
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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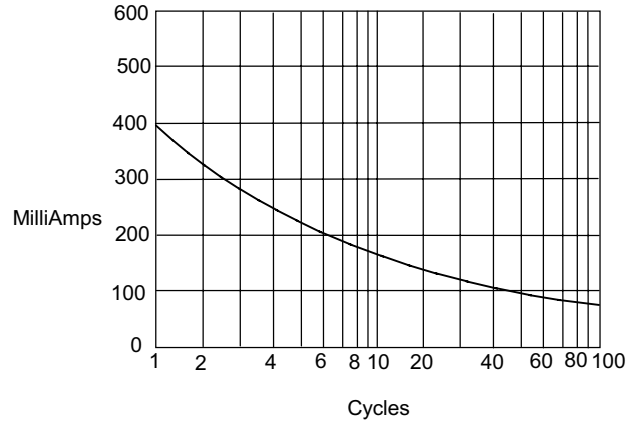
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Figure 4
Typical Reverse Characteristics



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/AmmoBox
Part Number-BP	Bulk: 100Kpcs/Carton

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