



Micro Commercial Components



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1N4001GP
THRU
1N4007GP

Features

- Glass Passivated Junction
• Low Current Leakage and Low Cost
• Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
• Epoxy meets UL 94 V-0 flammability rating
• Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
• Storage Temperature: -55°C to +150°C
• Maximum Thermal Resistance; 20°C/W Junction To Lead

Table with 5 columns: MCC Catalog Number, Device Marking, Maximum Recurrent Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage. Rows include 1N4001GP through 1N4007GP.

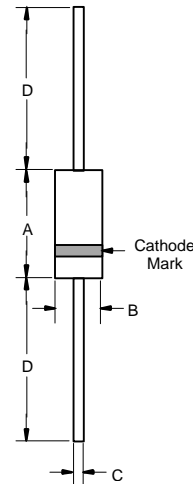
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

\*Pulse test: Pulse width 300 µsec, Duty cycle 2%
Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

1 Amp Glass Passivated Rectifier
50 - 1000 Volts

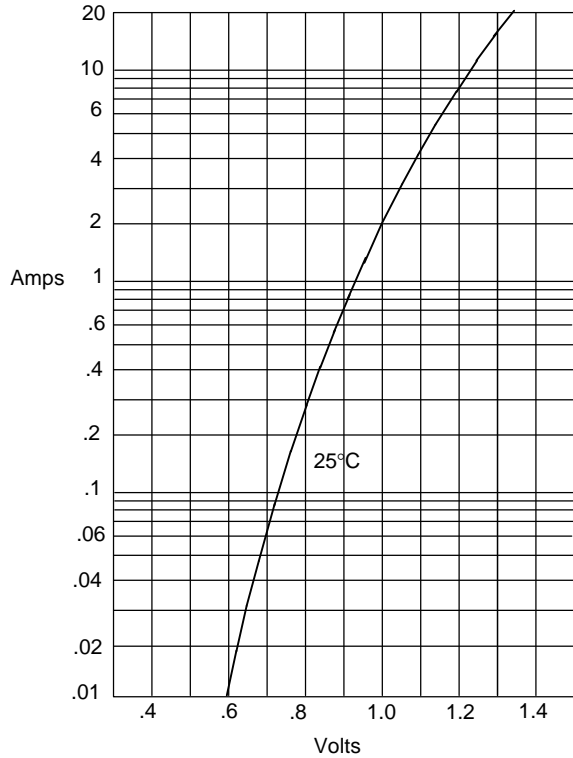
DO-41



DIMENSIONS table with columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A, B, C, and D.

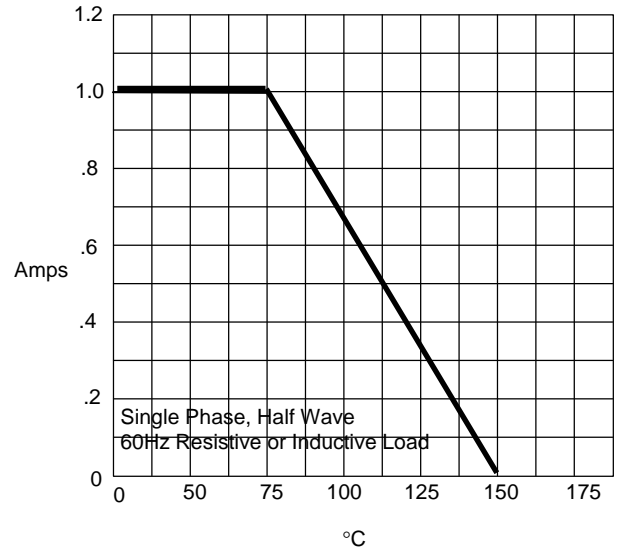
# 1N4001GP thru 1N4007GP

Figure 1  
Typical Forward Characteristics



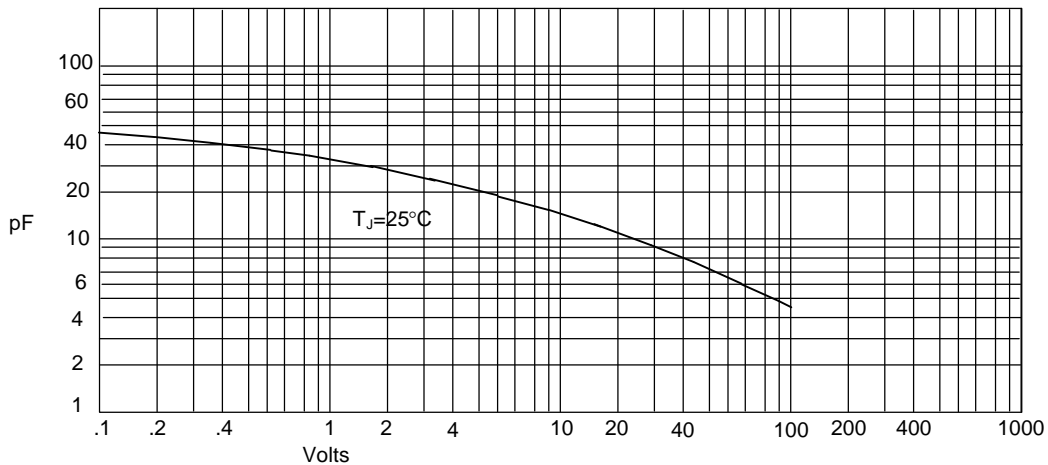
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



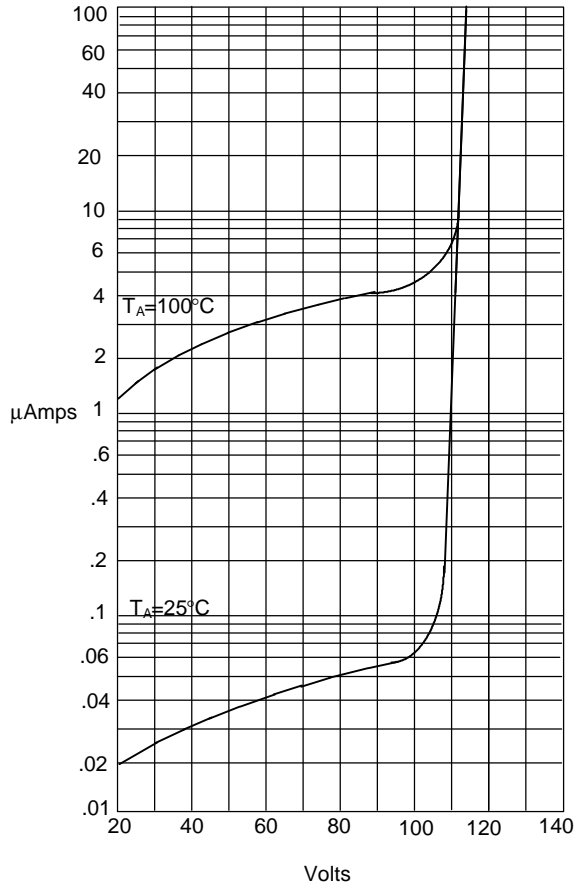
Average Forward Rectified Current - Amperes *versus*  
Ambient Temperature - °C

Figure 3  
Junction Capacitance



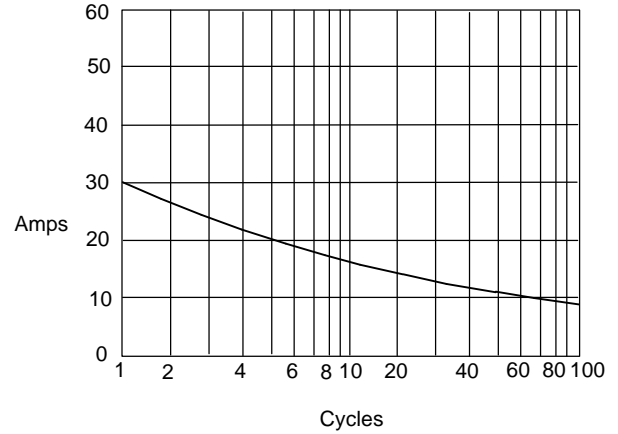
Junction Capacitance - pF *versus*  
Reverse Voltage - Volts

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

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: 5Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box
Part Number-BP	Bulk: 50Kpcs/Carton

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