



Micro Commercial Components



Micro Commercial Components  
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**1N5400GP  
THRU  
1N5408GP**

## Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High Current Capability and Low Current Leakage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Glass Passivated Junction

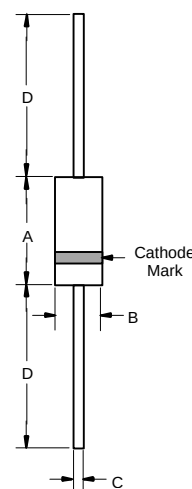
## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30 °C/W Junction To Lead

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| 1N5400GP           | 1N5400GP       | 50V                                    | 35V                 | 50V                         |
| 1N5401GP           | 1N5401GP       | 100V                                   | 70V                 | 100V                        |
| 1N5402GP           | 1N5402GP       | 200V                                   | 140V                | 200V                        |
| 1N5404GP           | 1N5404GP       | 400V                                   | 280V                | 400V                        |
| 1N5406GP           | 1N5406GP       | 600V                                   | 420V                | 600V                        |
| 1N5407GP           | 1N5407GP       | 800V                                   | 560V                | 800V                        |
| 1N5408GP           | 1N5408GP       | 1000V                                  | 700V                | 1000V                       |

**3 Amp Glass  
Passivated Rectifier  
50 - 1000 Volts**

**DO-201AD**



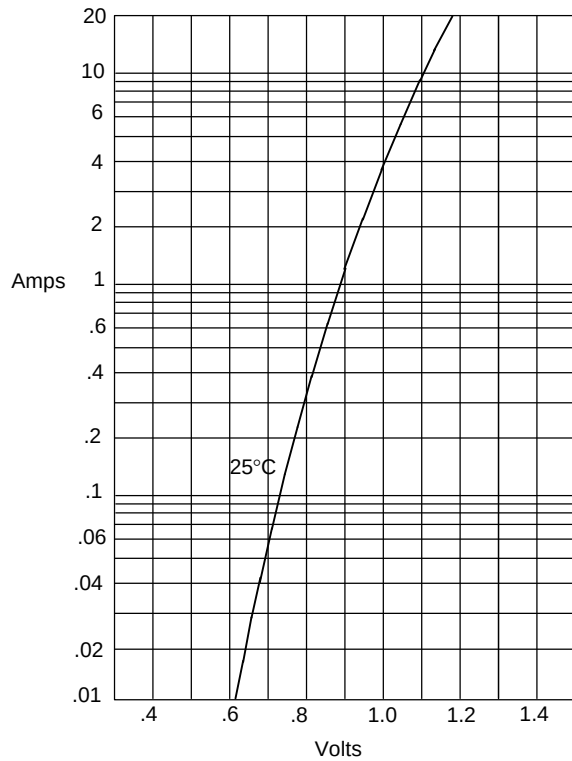
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|                                                         |             |                                       |                                                       |
|---------------------------------------------------------|-------------|---------------------------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 3.0A                                  | $T_A = 105^\circ\text{C}$                             |
| Peak Forward Surge Current                              | $I_{FSM}$   | 200A                                  | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.1V                                  | $I_{FM} = 3.0A$ ;<br>$T_J = 25^\circ\text{C}^*$       |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5.0 $\mu\text{A}$<br>50 $\mu\text{A}$ | $T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_J$       | 40pF                                  | Measured at<br>1.0MHz, $V_R=4.0V$                     |

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

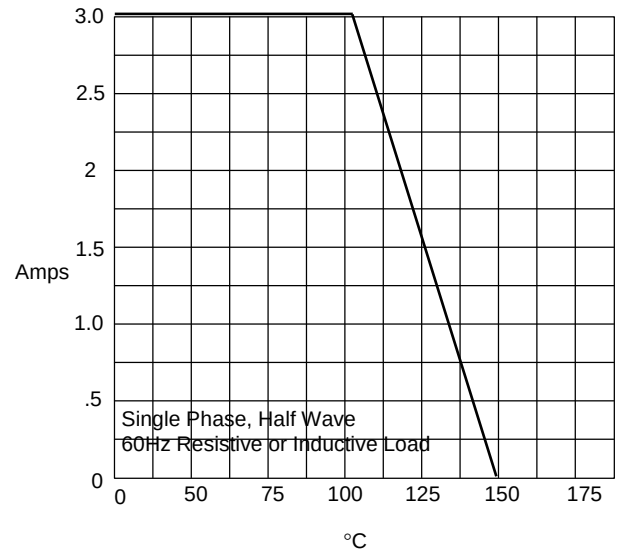
| DIM | INCHES |      | MM    |      | NOTE |
|-----|--------|------|-------|------|------|
|     | MIN    | MAX  | MIN   | MAX  |      |
| A   | .287   | .374 | 7.30  | 9.50 |      |
| B   | .189   | .208 | 4.80  | 5.30 |      |
| C   | .048   | .052 | 1.20  | 1.30 |      |
| D   | 1.000  | ---  | 25.40 | ---  |      |

Figure 1  
Typical Forward Characteristics



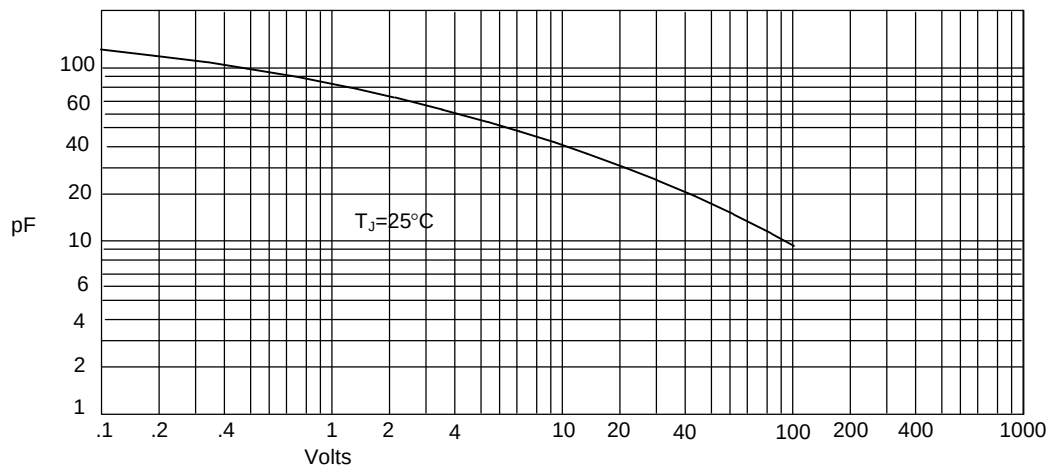
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



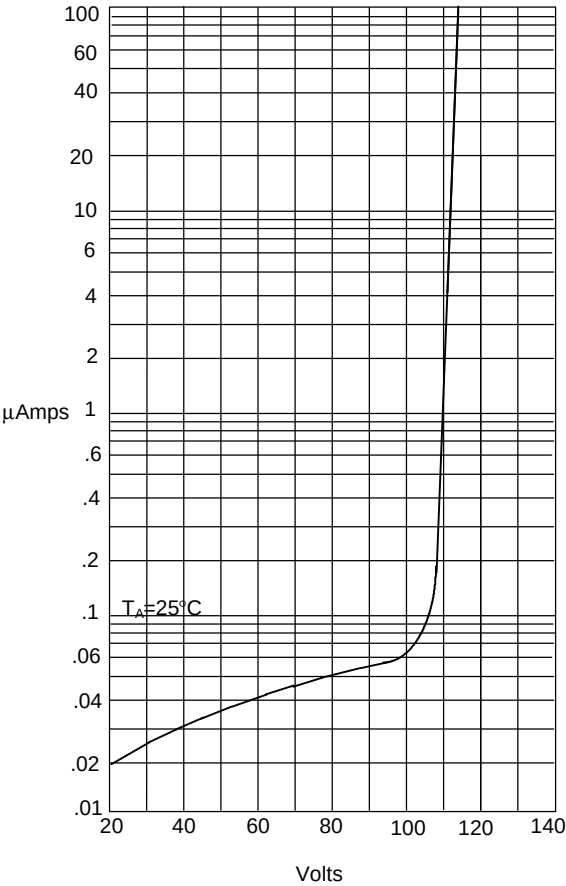
Average Forward Rectified Current - Amperes versus  
Ambient Temperature - °C

Figure 3  
Junction Capacitance



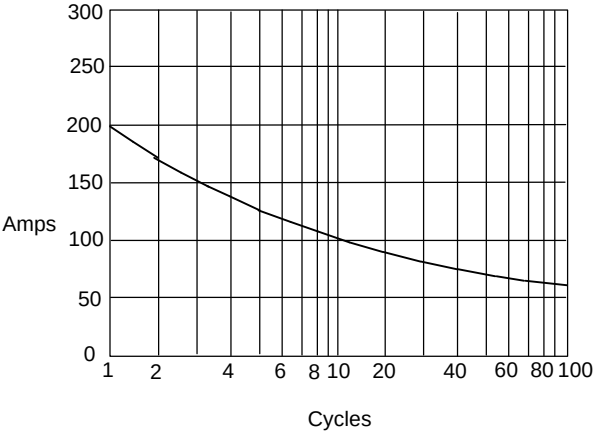
Junction Capacitance - pF versus  
Reverse Voltage - Volts

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmpere*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: 1.2Kpcs/Reel        |
| Part Number-AP | Ammo Packing: 1.2Kpcs/Ammo Box |
| Part Number-BP | Bulk: 12Kpcs/Carton            |

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

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