



Micro Commercial Components



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**1N5400
THRU
1N5408**

Features

- Low Current Leakage and Low Forward Voltage
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

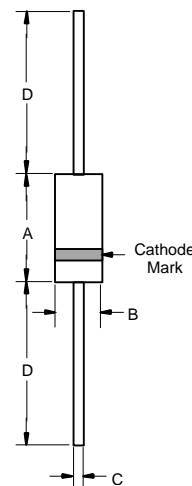
Maximum Ratings

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

| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|--|---------------------|-----------------------------|
| 1N5400 | 1N5400 | 50V | 35V | 50V |
| 1N5401 | 1N5401 | 100V | 70V | 100V |
| 1N5402 | 1N5402 | 200V | 140V | 200V |
| 1N5404 | 1N5404 | 400V | 280V | 400V |
| 1N5405 | 1N5405 | 500V | 350V | 500V |
| 1N5406 | 1N5406 | 600V | 420V | 600V |
| 1N5407 | 1N5407 | 800V | 560V | 800V |
| 1N5408 | 1N5408 | 1000V | 700V | 1000V |

**3 Amp Rectifier
50 - 1000 Volts**

DO-201AD



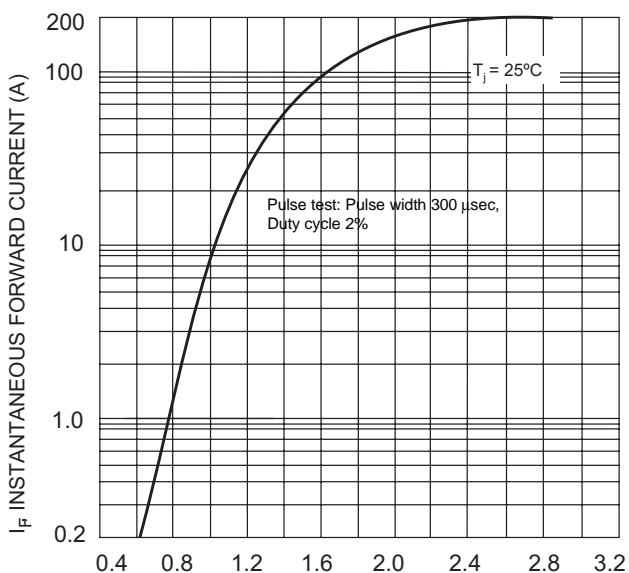
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|--|---|
| 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 |
| Forward Voltage | V_F | 1.0V | $I_F = 3.0\text{A}; T_a = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0 μA 100 μA | $T_a = 25^\circ\text{C}$ $T_a = 150^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 40pF | Measured at 1.0MHz, $V_R = 4.0\text{V}$ |

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

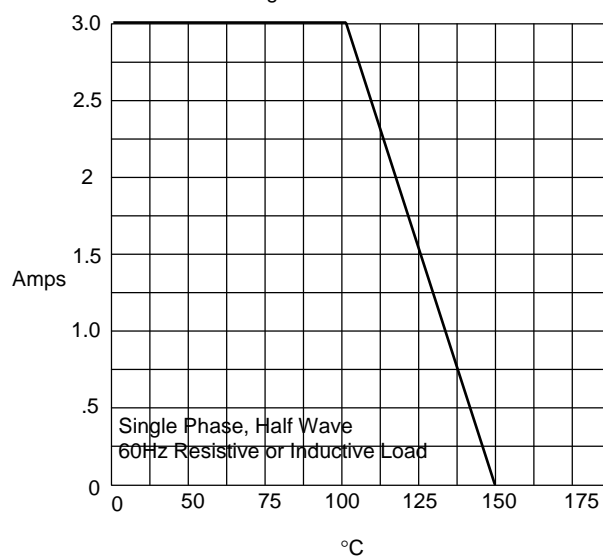
| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .287 | .374 | 7.30 | 9.50 | |
| B | .189 | .208 | 4.80 | 5.30 | |
| C | .048 | .052 | 1.20 | 1.30 | |
| D | 1.000 | --- | 25.40 | --- | |

Figure 1
Typical Forward Characteristics



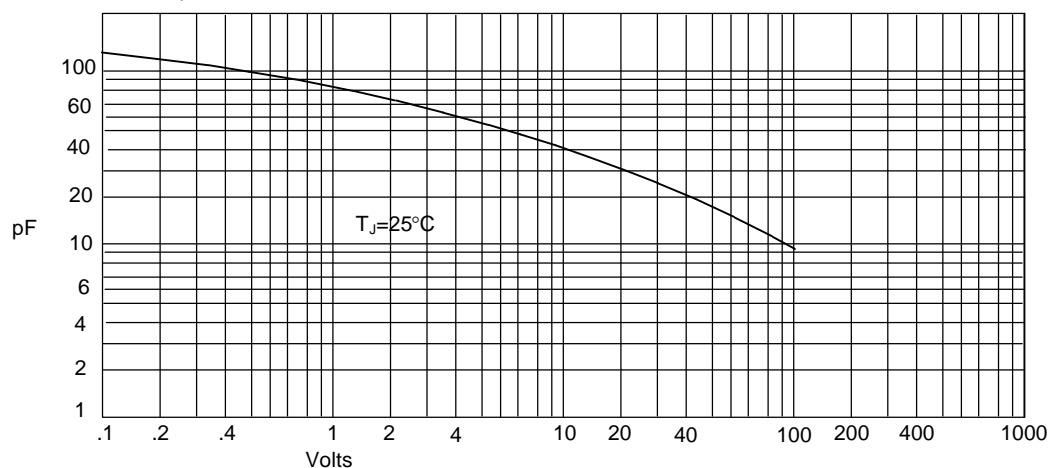
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



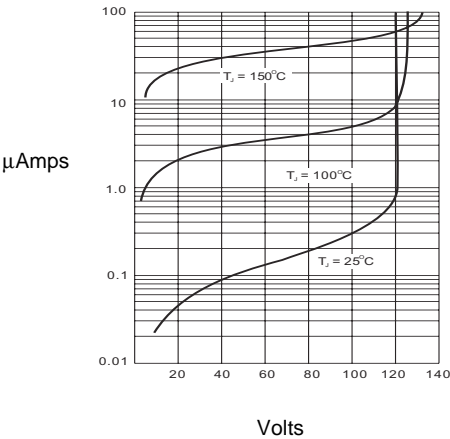
Average Forward Rectified Current - Amperes versus
Ambient Temperature - $^\circ\text{C}$

Figure 3
Junction Capacitance



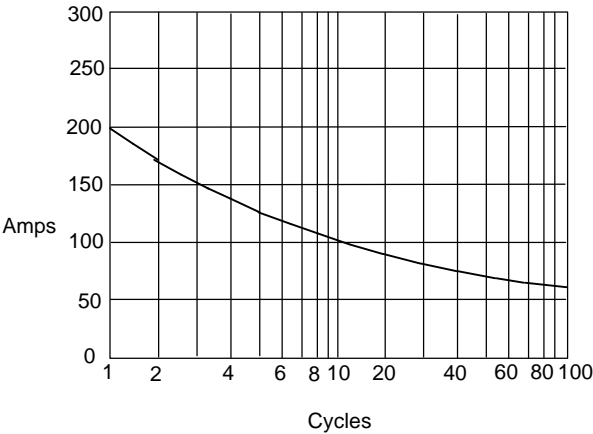
Junction Capacitance - pF versus
Reverse Voltage - Volts

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: 1.2Kpcs/Reel |
| Part Number-AP | Ammo Packing: 1.2Kpcs/Ammo Box |
| Part Number-BP | Bulk: 12Kpcs/Carton |

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