



Micro Commercial Components



Micro Commercial Components  
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# 1N5400 THRU 1N5408

## 3 Amp Rectifier 50 - 1000 Volts

### Features

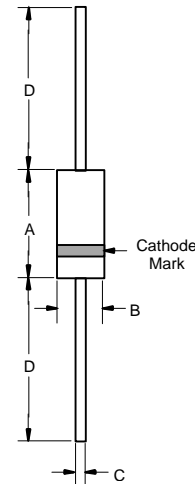
- Halogen free available upon request by adding suffix "-HF"
- Low Current Leakage and Low Forward Voltage
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### 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                       |

### 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 $\mu\text{A}$<br>100 $\mu\text{A}$ | $T_a = 25^\circ\text{C}$<br>$T_a = 150^\circ\text{C}$ |
| 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 | DIMENSIONS |      |       |      | NOTE |
|-----|------------|------|-------|------|------|
|     | INCHES     |      | MM    |      |      |
|     | 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

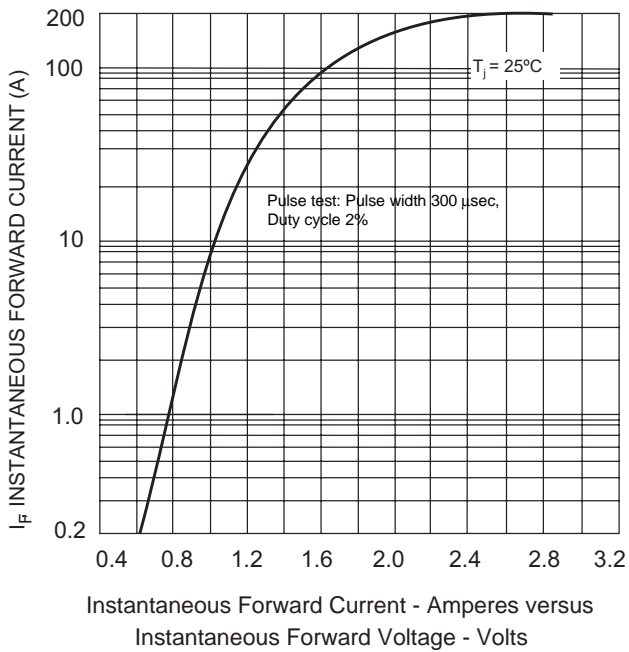


Figure 2  
Forward Derating Curve

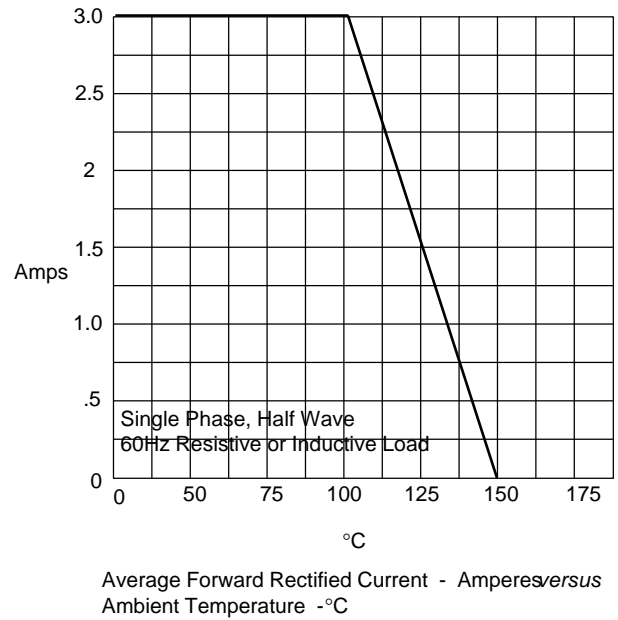


Figure 3  
Junction Capacitance

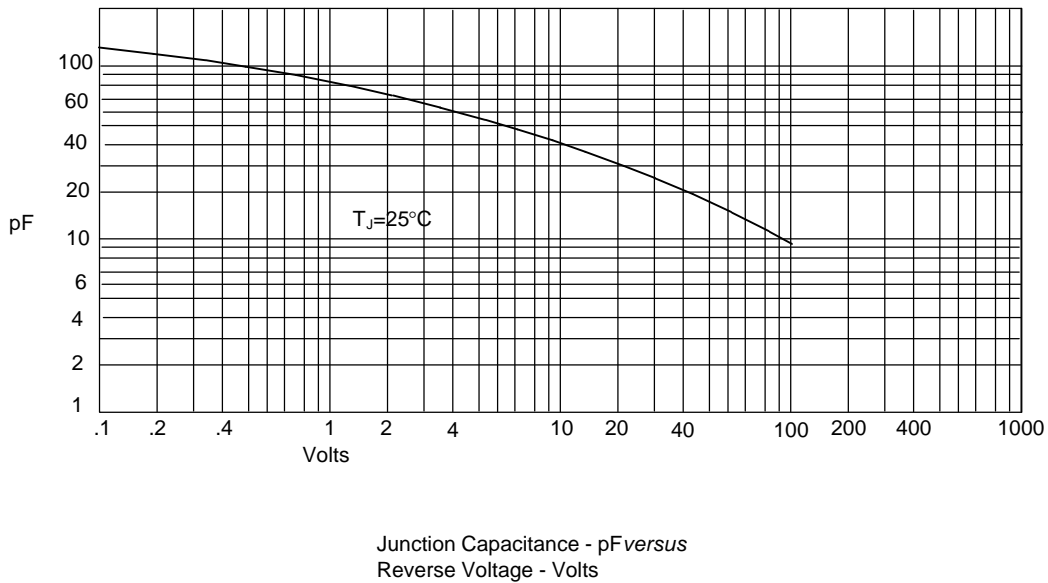
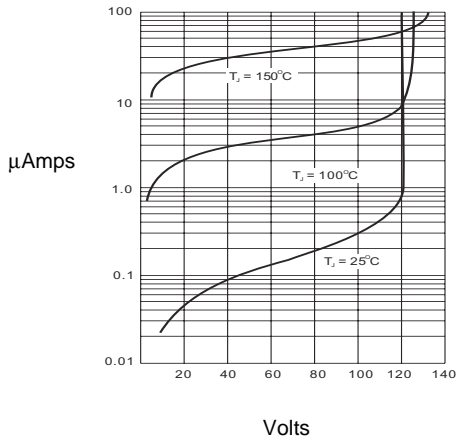
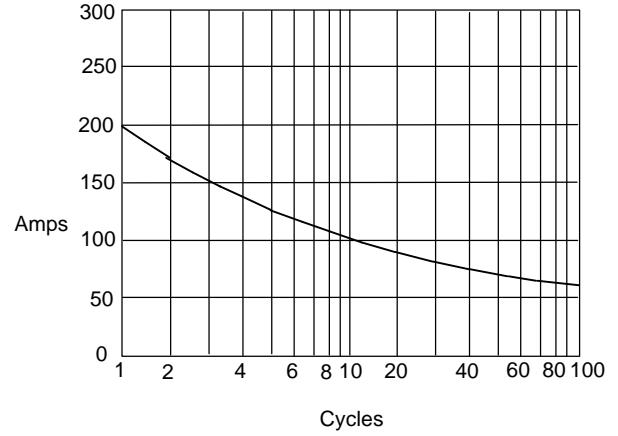


Figure 4  
Typical Reverse Characteristics



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            |

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

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