



Micro Commercial Components



Micro Commercial Components  
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**10A01  
THRU  
10A07**

## Features

- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 400A Peak
- Low Reverse Leakage Current and Diffused Junction
- 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

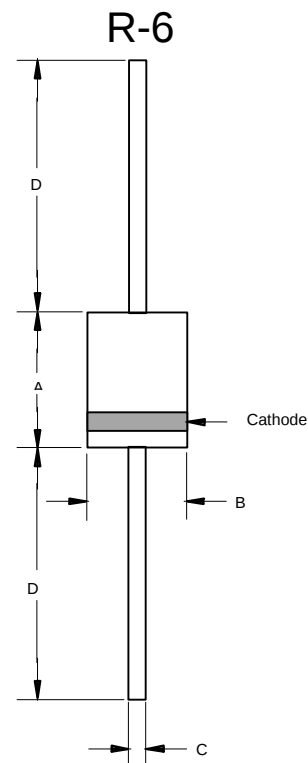
| MCC Catalog Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|----------------|----------------------------------------|---------------------|-----------------------------|
| 10A01              | 10A01          | 50V                                    | 35V                 | 50V                         |
| 10A02              | 10A02          | 100V                                   | 70V                 | 100V                        |
| 10A03              | 10A03          | 200V                                   | 140V                | 200V                        |
| 10A04              | 10A04          | 400V                                   | 280V                | 400V                        |
| 10A05              | 10A05          | 600V                                   | 420V                | 600V                        |
| 10A06              | 10A06          | 800V                                   | 560V                | 800V                        |
| 10A07              | 10A07          | 1000V                                  | 700V                | 1000V                       |

### Electrical Characteristics @ 25°C Unless Otherwise Specified

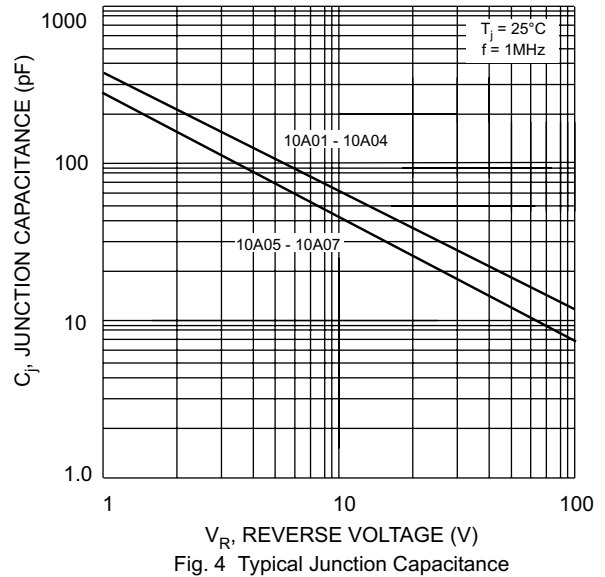
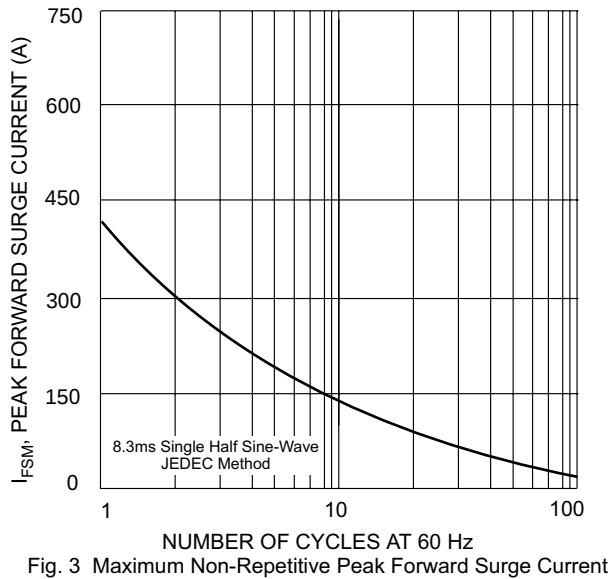
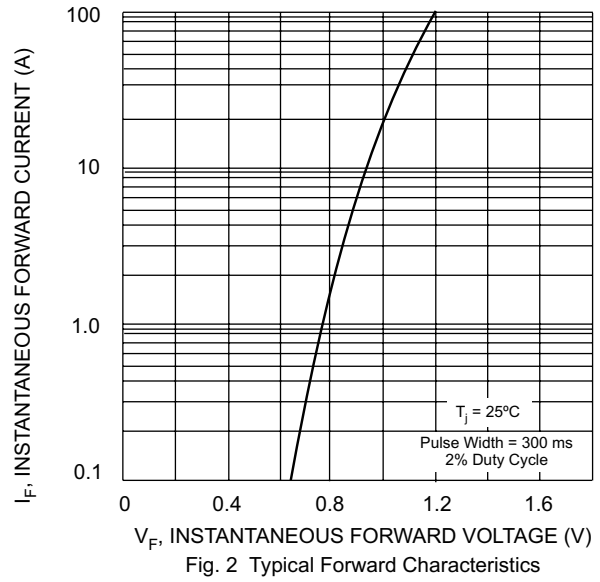
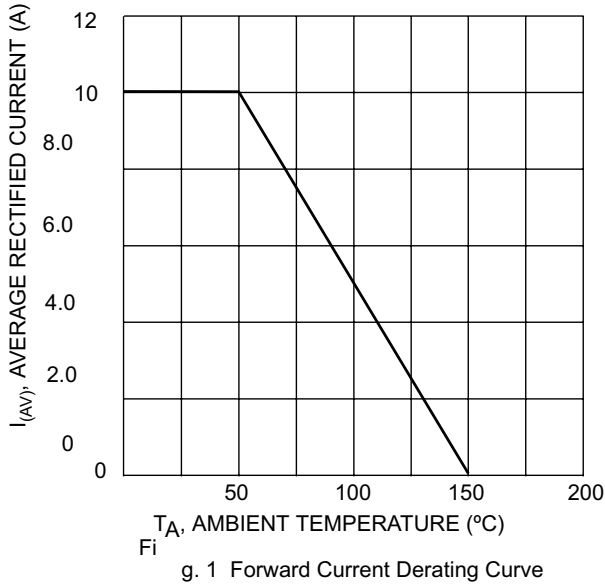
|                                                         |             |                                       |                                                       |
|---------------------------------------------------------|-------------|---------------------------------------|-------------------------------------------------------|
| Average Forward Current                                 | $I_{F(AV)}$ | 10 A                                  | $T_A = 50^\circ\text{C}$                              |
| Peak Forward Surge Current                              | $I_{FSM}$   | 400A                                  | 8.3ms, half sine                                      |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.0V                                  | $I_{FM} = 10A$ ;<br>$T_A = 25^\circ\text{C}$          |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 10 $\mu\text{A}$<br>100 $\mu\text{A}$ | $T_A = 25^\circ\text{C}$<br>$T_A = 100^\circ\text{C}$ |
| Typical Junction Capacitance                            | $C_j$       | 150pF                                 | Measured at 1.0MHz, $V_R=4.0V$                        |
| Typical Thermal Resistance Junction to Ambien           | $R_{thJA}$  | 10K/W                                 |                                                       |

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

**10 Amp  
Rectifier  
50 to 1000 Volts**



| DIMENSIONS |        |      |       |      |      |
|------------|--------|------|-------|------|------|
| DIM        | INCHES |      | MM    |      | NOTE |
|            | MIN    | MAX  | MIN   | MAX  |      |
| A          | .340   | .360 | 8.60  | 9.10 |      |
| B          | .340   | .360 | 8.60  | 9.10 |      |
| C          | .048   | .052 | 1.20  | 1.30 |      |
| D          | 1.000  | ---  | 25.40 | ---  |      |





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## Ordering Information :

| Device         | Packing                       |
|----------------|-------------------------------|
| Part Number-TP | Tape&Reel: 500pcs/Reel        |
| Part Number-AP | Ammo Packing: 450pcs/Ammo Box |
| Part Number-BP | Bulk: 4.8Kpcs/Carton          |

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

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