

## Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Surge Capability
- Glass Passivated Junction
- Ultra Fast Switching Speed For High Efficiency
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 20°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MUR405GP        | MUR405G        | 50V                                    | 35V                 | 50V                         |
| MUR410GP        | MUR410G        | 100V                                   | 70V                 | 100V                        |
| MUR415GP        | MUR415G        | 150V                                   | 105V                | 150V                        |
| MUR420GP        | MUR420G        | 200V                                   | 140V                | 200V                        |
| MUR440GP        | MUR440G        | 400V                                   | 280V                | 400V                        |
| MUR460GP        | MUR460G        | 600V                                   | 420V                | 600V                        |
| MUR480GP        | MUR480G        | 800V                                   | 550V                | 800V                        |
| MUR4100GP       | MUR4100G       | 1000V                                  | 700V                | 1000V                       |

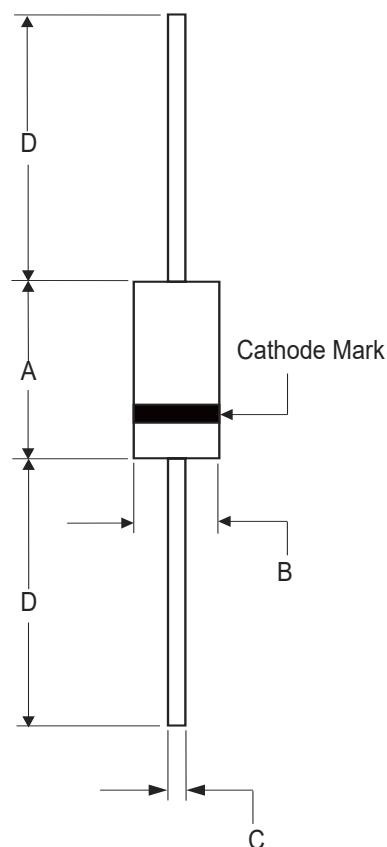
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|   |             |                          |   |
|---|-------------|--------------------------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 4.0A                     | $T_A=55^\circ\text{C}$                              |
| Peak Forward Surge Current                              | $I_{FSM}$   | 150A                     | 8.3ms, Half Sine                                    |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.0V<br>1.28V<br>1.85V   | $I_{FM}=4.0A$ ;<br>$T_J=25^\circ\text{C}$           |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 10 $\mu$ A<br>50 $\mu$ A | $T_J=25^\circ\text{C}$ ;<br>$T_J=100^\circ\text{C}$ |
| Maximum Reverse Recovery Time                           | $T_{rr}$    | 25ns<br>50ns<br>75ns     | $I_F=0.5A$ ; $I_R=1.0A$ ;<br>$I_{rr}=0.25A$         |
| Typical Junction Capacitance                            | $C_J$       | 60pF<br>50pF             | Measured at<br>1.0MHz, $V_R=4.0V$                   |

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

# 4 Amp Ultra Fast Recovery Rectifier 50 to 1000 Volts

## DO-201AD



| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | 0.287  | 0.374 | 7.30  | 9.50  |      |
| B   | 0.189  | 0.208 | 4.80  | 5.30  |      |
| C   | 0.048  | 0.052 | 1.20  | 1.30  |      |
| D   | 1.000  | ----- | 25.40 | ----- |      |

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

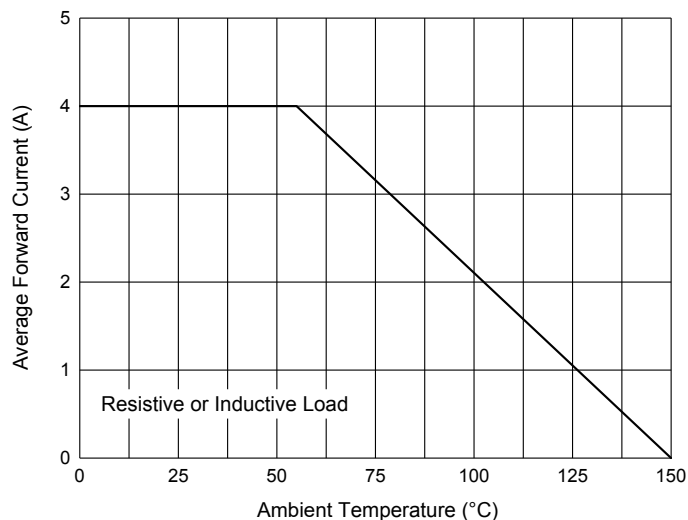


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

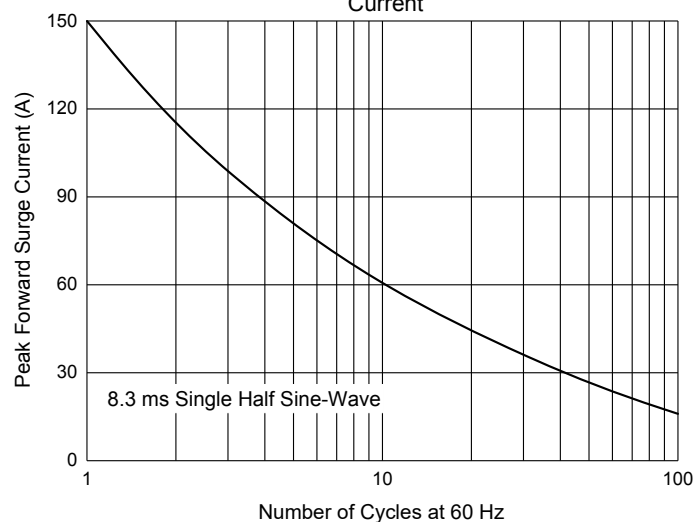


Fig. 3 - Typical Instantaneous Forward Characteristics

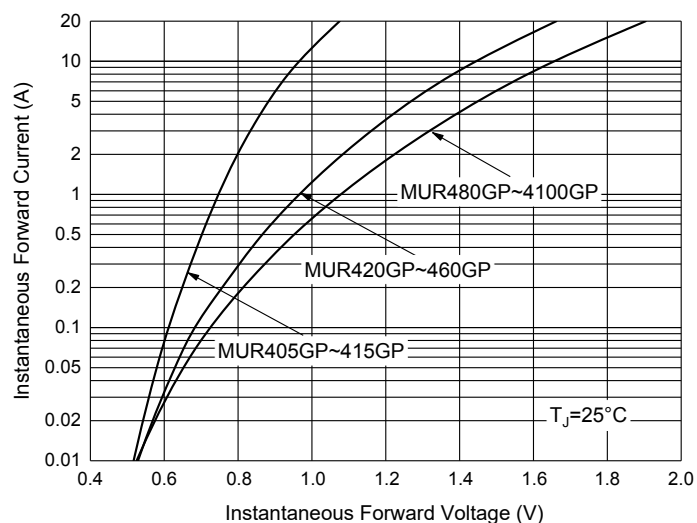
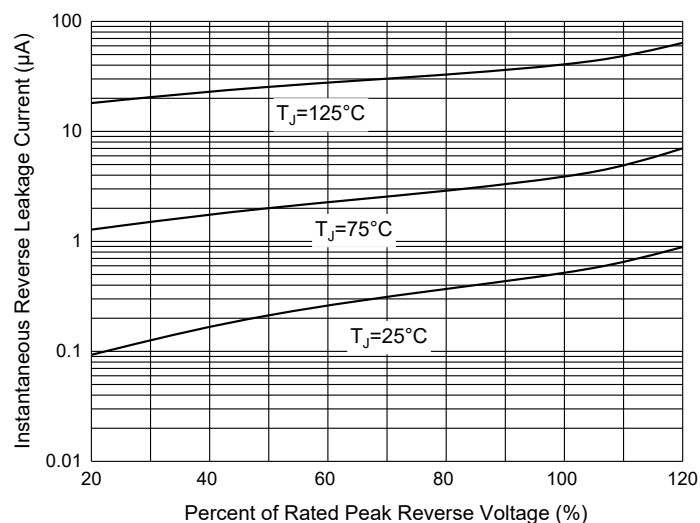


Fig. 4 - Typical Reverse Leakage Characteristics



## 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:500pcs/Box,12Kpcs/Carton  |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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