

**Features**

- High Voltage
- Low Leakage
- Low Forward Voltage Drop
- Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| R4000GPS        | R4000GPS       | 4000V                                  | 2800V               | 4000V                       |

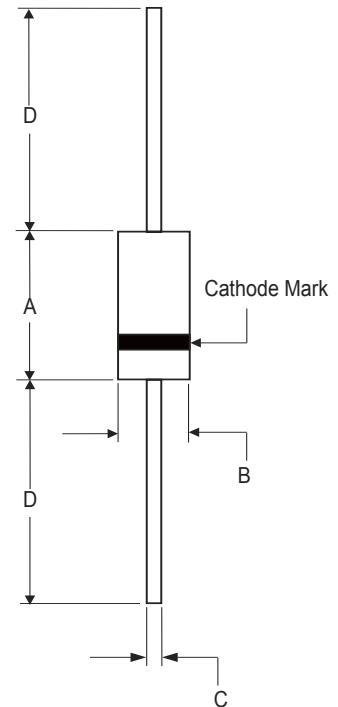
**Electrical Characteristics @ 25°C Unless Otherwise Specified**

|   |             |         |   |
|---|-------------|---------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 200mA   | $T_A=60^\circ\text{C}$                                  |
| Peak Forward Surge Current                              | $I_{FSM}$   | 15A     | 8.3ms, Half Sine  |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 3.5V    | $I_{FM}=0.5\text{A}; T_J=25^\circ\text{C}$              |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 5.0µA   | $T_J=25^\circ\text{C}$                                  |
| Reverse Recovery Time                                   | $t_{rr}$    | >1200nS | $I_F=0.5\text{A}; I_R=1.0\text{A}; I_{rr}=0.25\text{A}$ |

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

**0.2 Amp High Voltage Silicon Rectifier  
4000 Volts**

**DO-41**



**DIMENSIONS**

| DIM | INCHES |       | MM    |       | NOTE |
|-----|--------|-------|-------|-------|------|
|     | MIN    | MAX   | MIN   | MAX   |      |
| A   | 0.160  | 0.205 | 4.10  | 5.20  |      |
| B   | 0.080  | 0.107 | 2.00  | 2.70  | Φ    |
| C   | 0.028  | 0.035 | 0.71  | 0.90  | Φ    |
| D   | 1.000  | ----- | 25.40 | ----- |      |

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

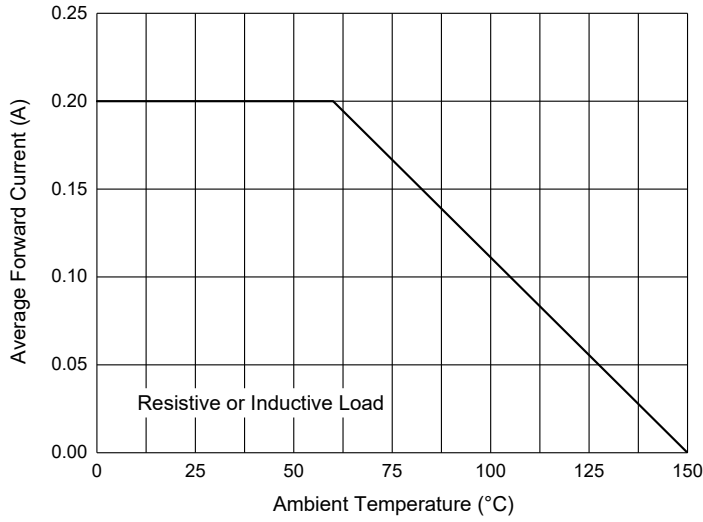


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

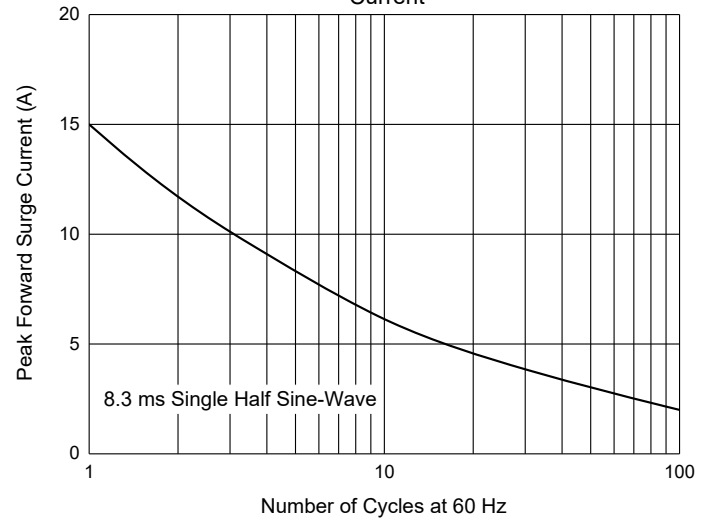


Fig. 3 - Typical Instantaneous Forward Characteristics

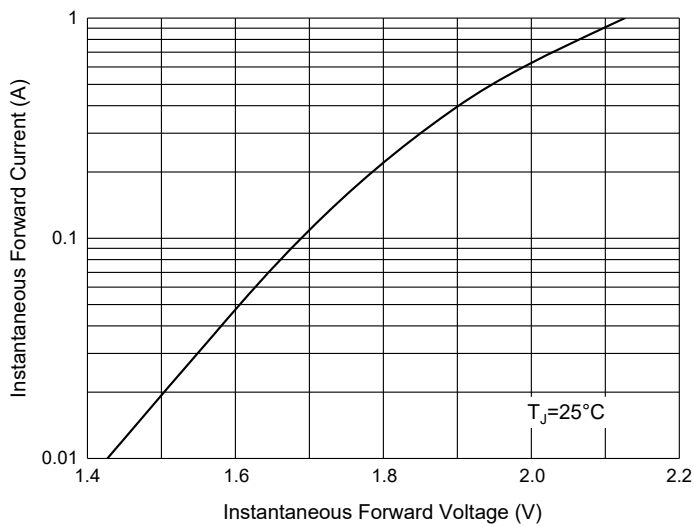
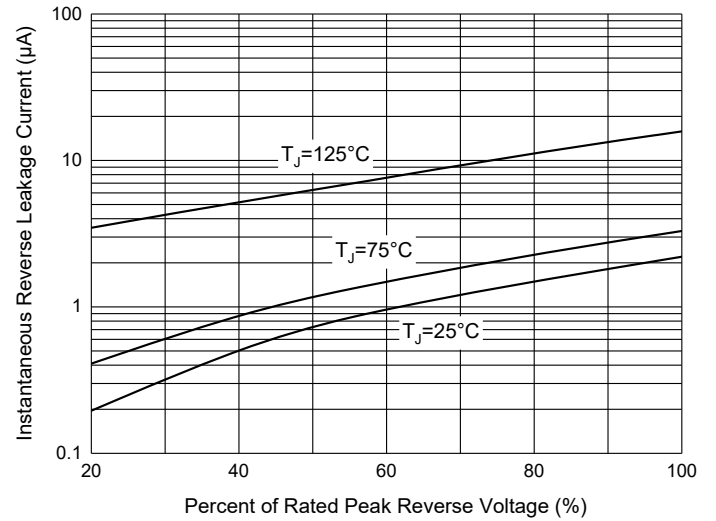


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device           | Packing                        |
|------------------|--------------------------------|
| (Part Number)-TP | Tape&Reel: 5Kpcs/Reel          |
| (Part Number)-AP | Ammo Packing: 5Kpcs/Ammo Box   |
| (Part Number)-BP | Bulk: 1Kpcs/Box, 50Kpcs/Carton |

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

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