

Features

- High Voltage
- Low Leakage
- Low Forward Voltage Drop
- Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- 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 |

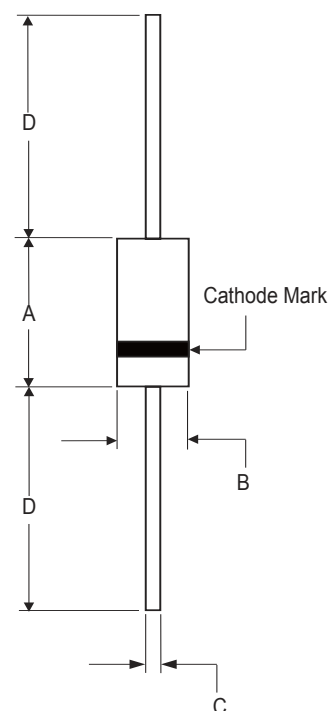
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------|---|
| 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 | $I_{FM}=0.5A$; $T_J=25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0 μ A | $T_J=25^\circ\text{C}$ |
| Reverse Recovery Time | t_{rr} | >1200nS | $I_F=0.5A$; $I_R=1.0A$; $I_{rr}=0.25A$ |

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

0.2 Amp High Voltage Silicon Rectifier 4000 Volts

DO-41



| 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

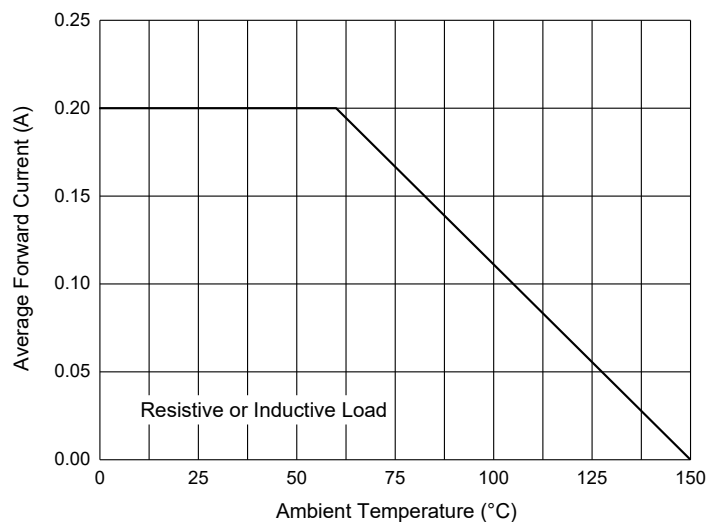


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

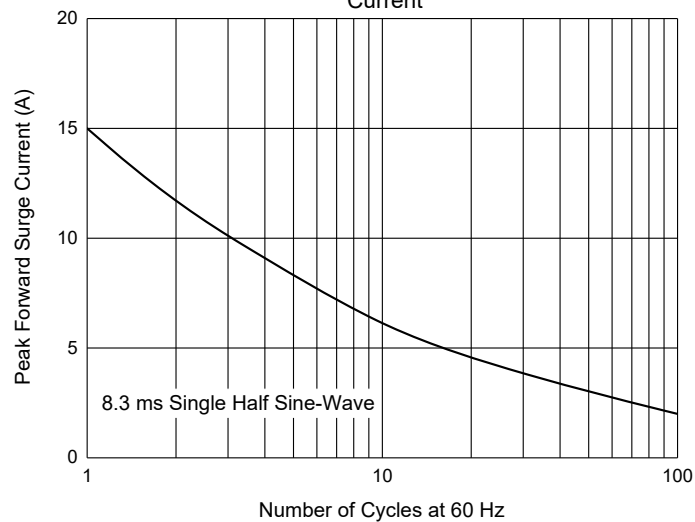


Fig. 3 - Typical Instantaneous Forward Characteristics

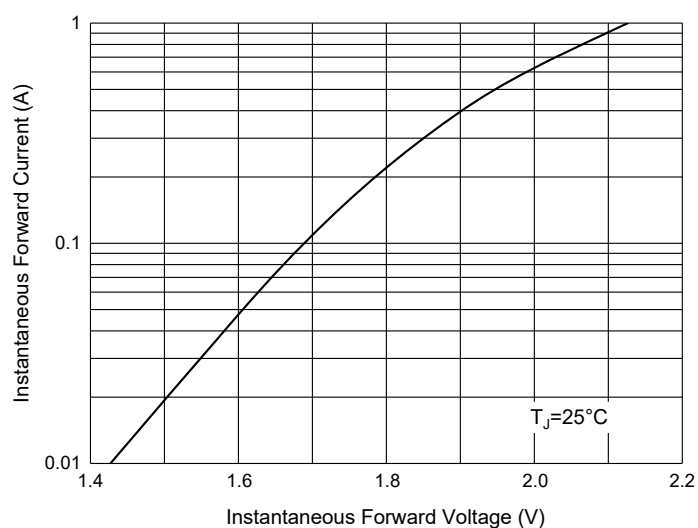
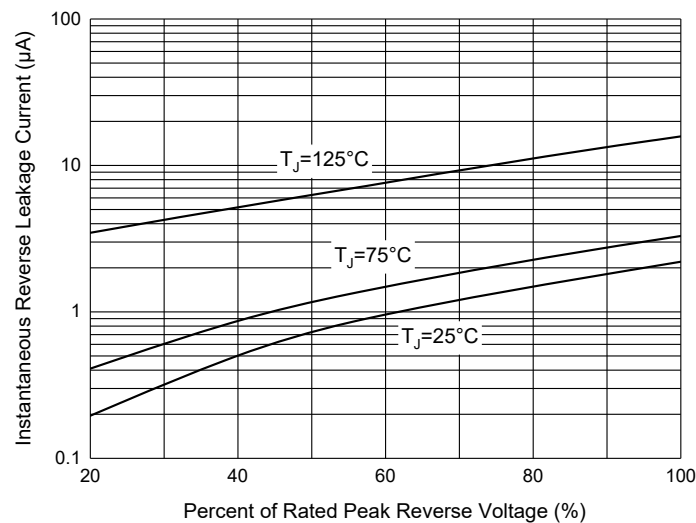


Fig. 4 - Typical Reverse Leakage Characteristics



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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