

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Junction Temperature Capability
- Low Forward Voltage Drop
- High Surge Current Capability And High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 25 °C/W Junction to Ambient
- Typical Thermal Resistance: 8°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SR506HL | SR506HL | 60V | 42V | 60V |

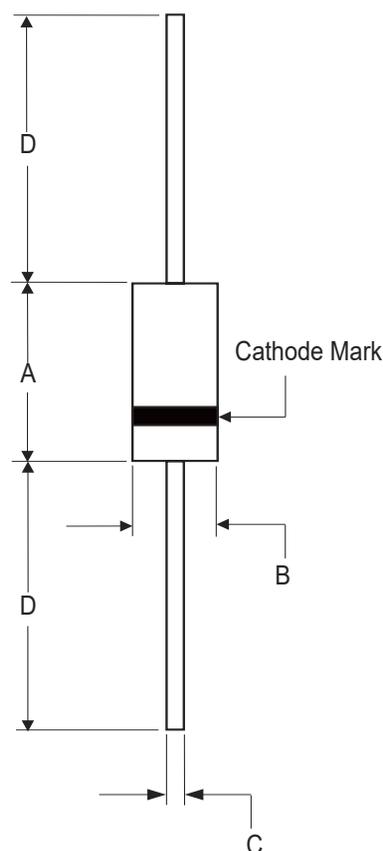
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------|---|
| Average Forward Current | $I_{F(AV)}$ | 5.0A | $T_L=90^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 220A | 8.3ms, Half Sine |
| Maximum Instantaneous Forward Voltage | V_F | 0.62V | $I_{FM}=5.0A;$ $T_J=25^\circ\text{C}$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | 0.1mA 10mA | $T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$ |

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

5 Amp Low VF Schottky Rectifier 60 Volts

DO-201AD



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | 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. 3 - Forward Current Derating Curve

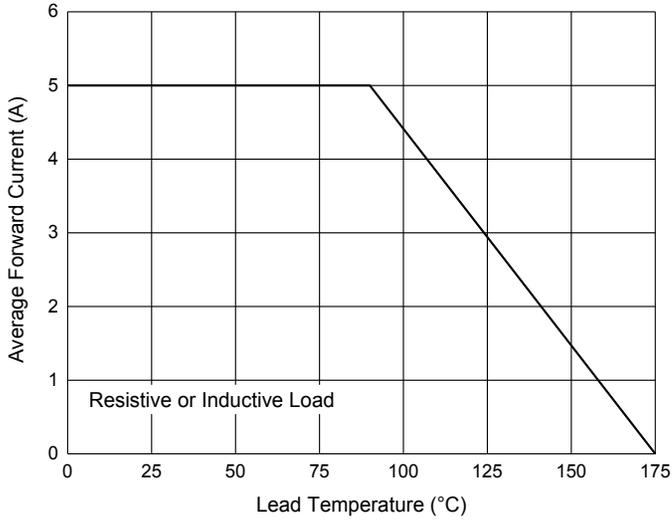


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

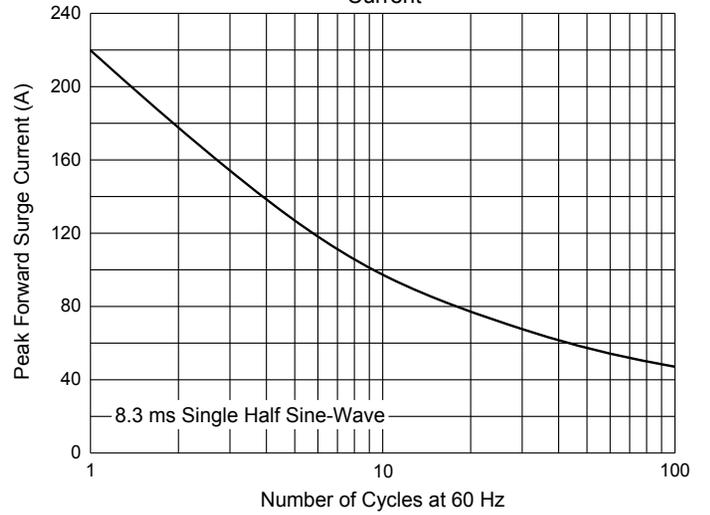


Fig. 3 - Typical Instantaneous Forward Characteristics

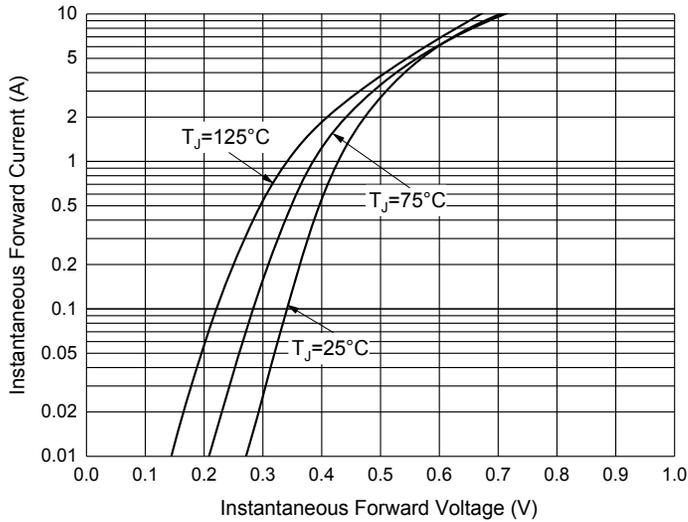
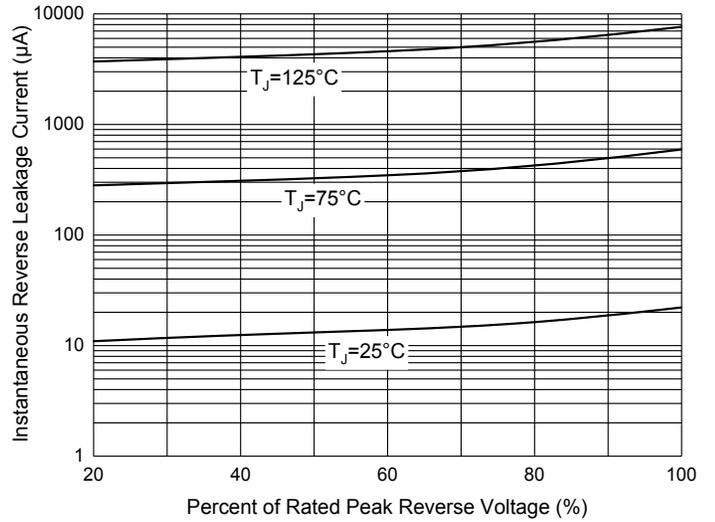


Fig. 4 - Typical Reverse Leakage Characteristics



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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