

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 30°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SR802 | SR802 | 20V | 14V | 20V |
| SR803 | SR803 | 30V | 21V | 30V |
| SR804 | SR804 | 40V | 28V | 40V |
| SR8045 | SR8045 | 45V | 31.5V | 45V |
| SR805 | SR805 | 50V | 35V | 50V |
| SR806 | SR806 | 60V | 42V | 60V |
| SR808 | SR808 | 80V | 56V | 80V |
| SR810 | SR810 | 100V | 70V | 100V |

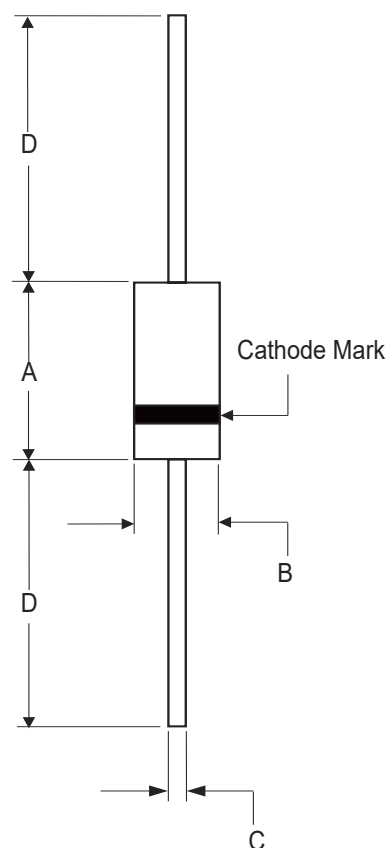
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 8.0A | $T_A=90^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 150A | 8.3ms, Half Sine |
| Maximum Instantaneous Forward Voltage SR802-SR8045 SR805-SR806 SR808-SR810 | V_F | 0.65V 0.70V 0.85V | $I_{FM}=8.0\text{A};$ $T_J=25^\circ\text{C}$ |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | 0.1mA 10mA | $T_J=25^\circ\text{C};$ $T_J=100^\circ\text{C}$ |
| Typical Junction Capacitance SR802-SR8045 SR805-SR806 SR808-SR810 | C_J | 500pF 380pF 165pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |

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

8 Amp Schottky Barrier Rectifier 20 to 100 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. 3 - Forward Current Derating Curve

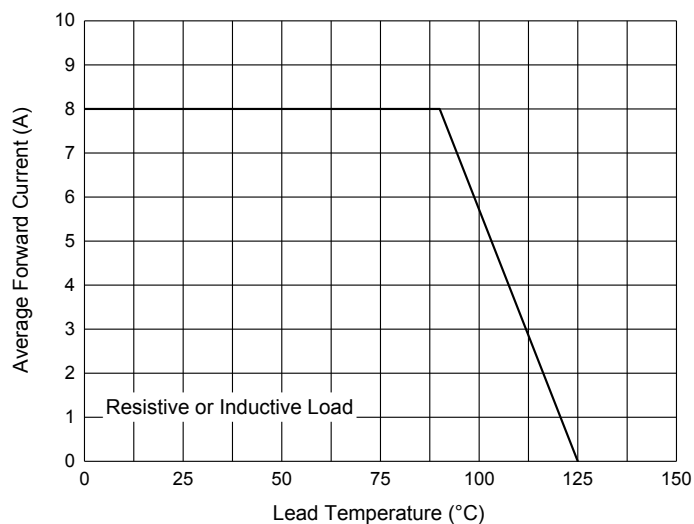


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

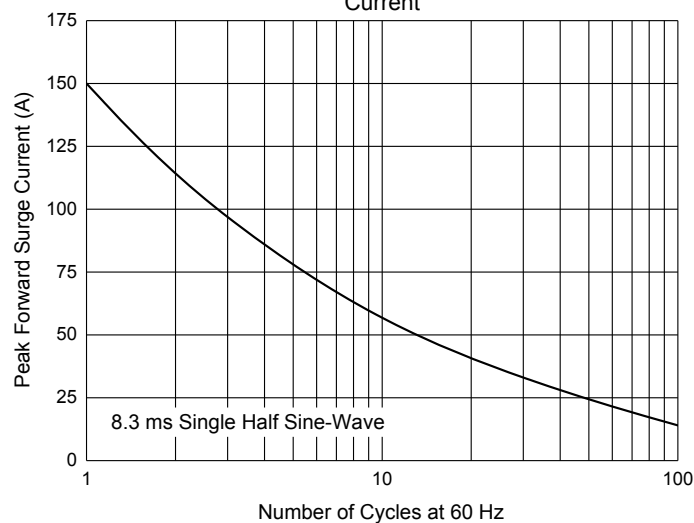


Fig. 3 - Typical Instantaneous Forward Characteristics

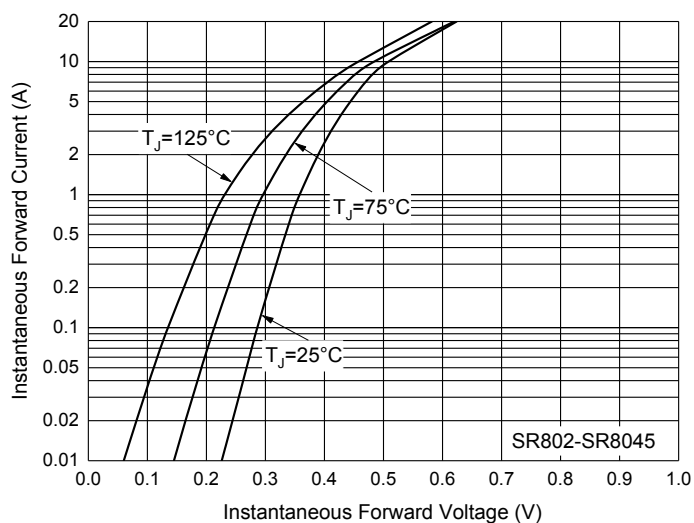


Fig. 4 - Typical Instantaneous Forward Characteristics

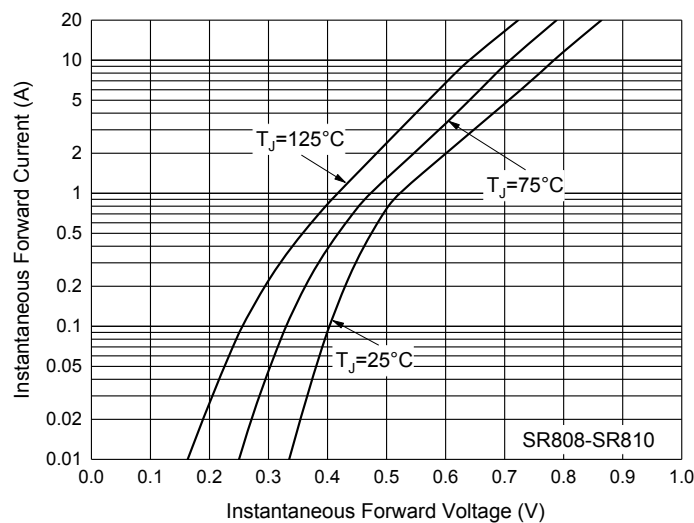


Fig. 5 - Typical Reverse Leakage Characteristics

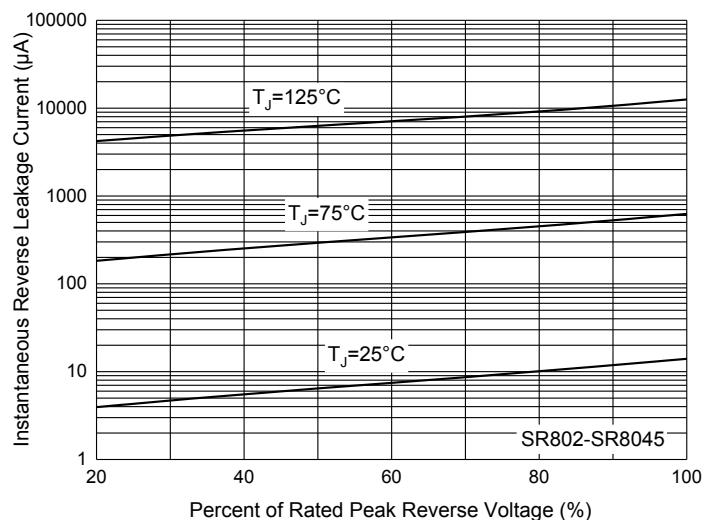
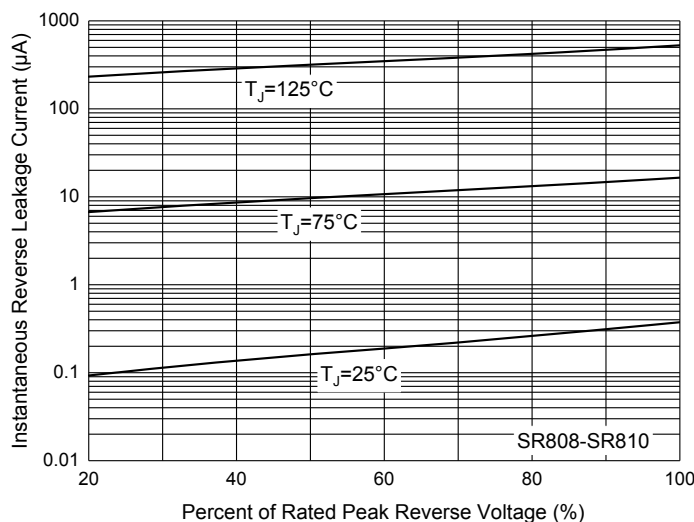


Fig. 6 - Typical Reverse Leakage Characteristics



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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