

### Features

- Guard Ring Protection
- Low Forward Voltage Drop
- Low Power Loss For High Efficiency
- Reverse Energy Tested
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

### Maximum Ratings

- Operating Junction Temperature Range: -50°C to +125°C
- Storage Temperature Range: -50°C to +125°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 |
|-----------------|----------------|--|---------------------|-----------------------------|
| SR202           | SR202          | 20V                                    | 14V                 | 20V                         |
| SR203           | SR203          | 30V                                    | 21V                 | 30V                         |
| SR204           | SR204          | 40V                                    | 28V                 | 40V                         |
| SR206           | SR206          | 60V                                    | 42V                 | 60V                         |

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

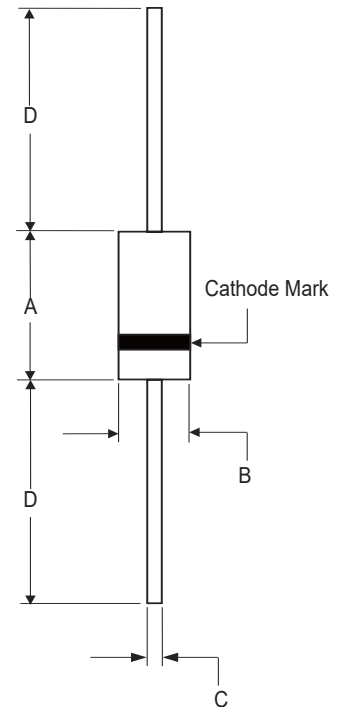
|                              |             |                |   |
|------------------------------|-------------|----------------|---|
| Average Forward Current      | $I_{F(AV)}$ | 2.0A           | $T_L = 90^\circ\text{C}$                                    |
| Maximum Surge Current        | $I_{FSM}$   | 50A            | 8.3ms, Half Sine  |
| Max Peak Forward Voltage     | $V_{FM}$    | 0.55V<br>0.70V | $I_{FM}=2.0A;$<br>$T_J=25^\circ\text{C}^*$                  |
| Max Peak Reverse Current     | $I_{RM}$    | 0.1mA<br>10mA  | $V_{RRM}, T_J=25^\circ\text{C};$<br>$T_J=100^\circ\text{C}$ |
| Typical Junction Capacitance | $C_J$       | 50pF           | $V_R=5.0V, T_J=25^\circ\text{C}$                            |

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

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

## 2.0 Amp Schottky Barrier Rectifier 20 to 60 Volts

### DO-41



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

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

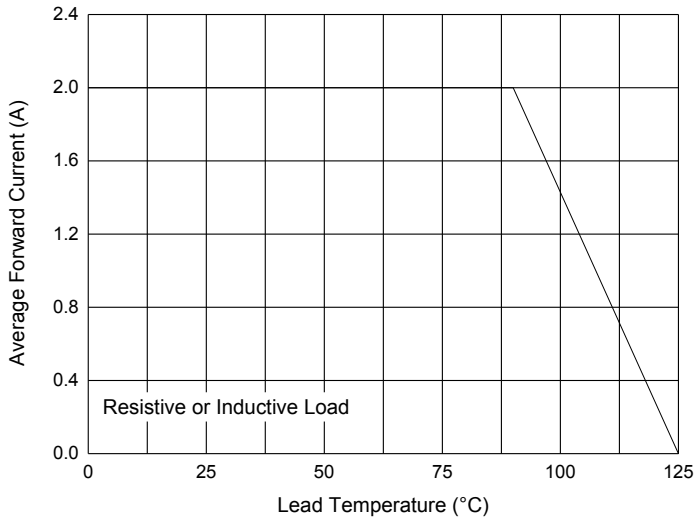


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

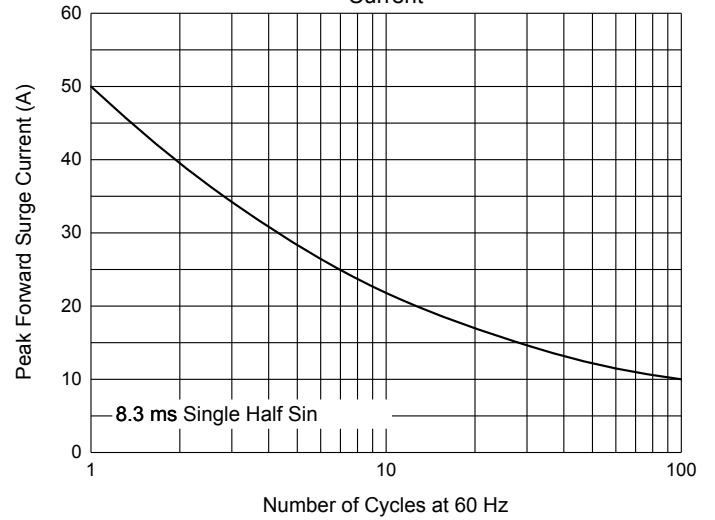


Fig. 3 - Typical Instantaneous Forward Characteristics

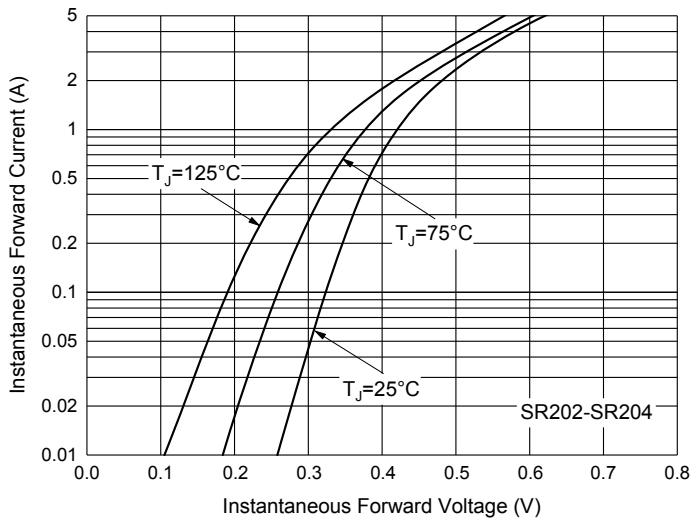


Fig. 4 - Typical Instantaneous Forward Characteristics

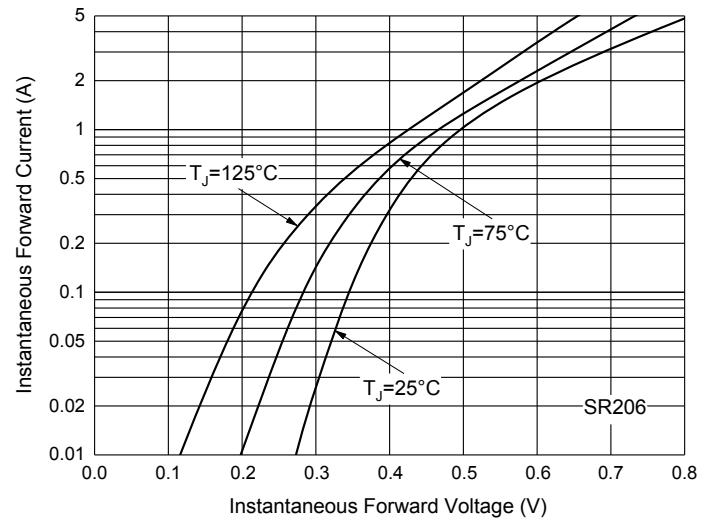


Fig. 6 - Typical Reverse Leakage Characteristics

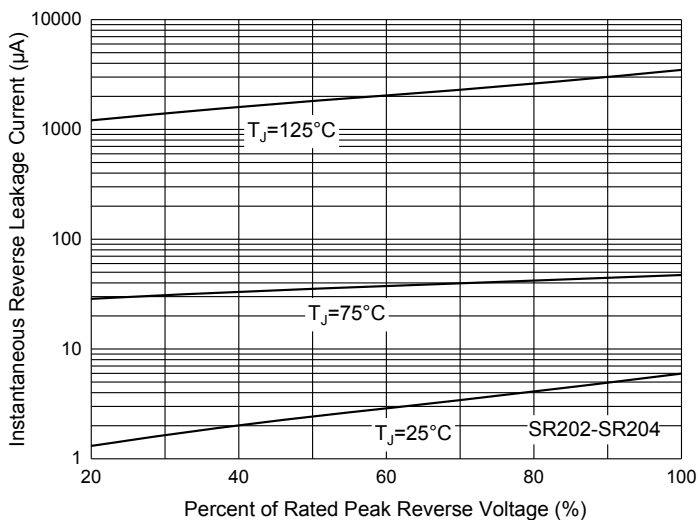
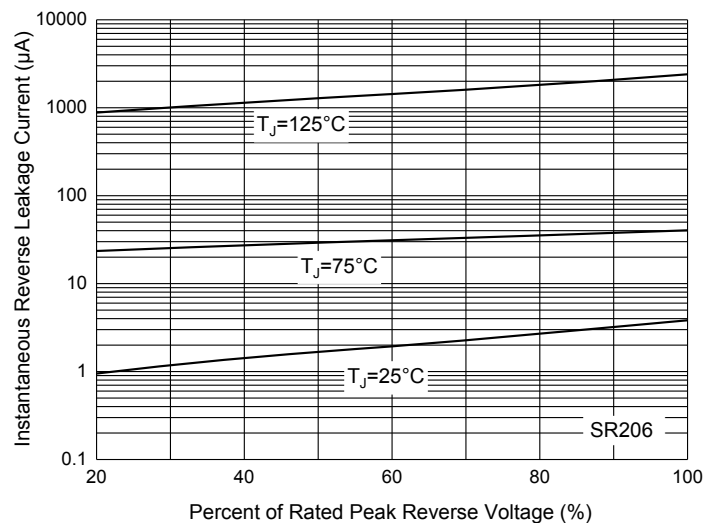


Fig. 6 - Typical Reverse Leakage Characteristics



## 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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