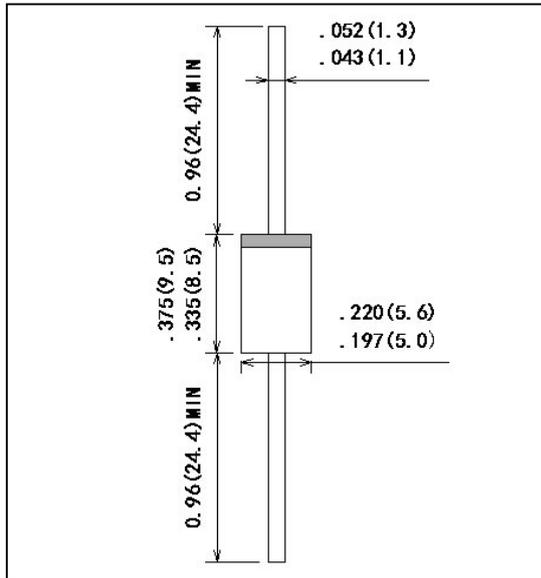


Reverse Voltage - 60 V

Forward Current - 5.0 A

Package Outline Dimensions in mm (inches)

DO 27



Features

- Metal-Semiconductor junction with guarding
- Very low forward voltage drop
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

- For use in in low voltage, high frequency inverters.

Mechanical Data

- Case:DO27 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

| Parameter | Symbol | SR560L | Unit |
|--|--------|-----------|-------|
| Maximum recurrent peak reverse voltage | VRRM | 60 | V |
| Maximum RMS voltage | VRMS | 42 | V |
| Maximum DC blocking voltage | VDC | 60 | V |
| Maximum average forward rectified current | IF(AV) | 5.0 | A |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | IFSM | 150 | A |
| Storage temperature range | TS | -55 ~ 150 | °C |
| Operating Junction temperature range | Tj | -55 ~ 125 | °C |
| Thermal Resistance | RthJL | 20 | °C /W |

Note1: Vertical P.C.B. mounting, 12.7 mm lead length with 63.5 mm x 63.5 mm copper pad.

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

| Parameter | Test Conditions | Symbol | SR560L | Unit |
|---|-----------------|--------|--------|------|
| Maximum forward voltage | IF=5.0 A | VF | 0.55 | V |
| Maximum DC reverse current at rated DC blocking voltage | TA=25°C | IR | 0.5 | mA |
| | TA=100°C | | 20 | |

Characteristics Curves

Fig.1 Forward Current Derating Curve

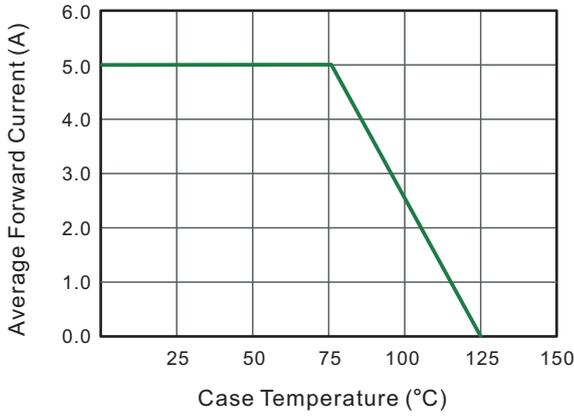


Fig.2 Typical Reverse Characteristics

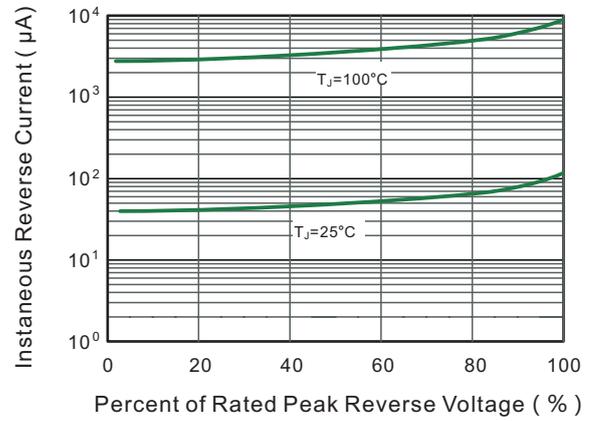


Fig.3 Typical Forward Characteristic

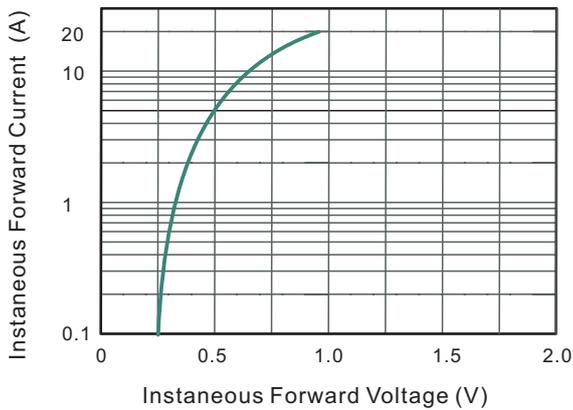


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

