



PRELIMINARY ✓

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SSR1045G

10 AMP
45 VOLTS
SCHOTTKY
RECTIFIER

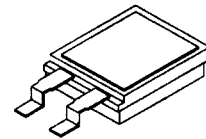
Designer's Data Sheet

FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overvoltage protection
- Hermetically Sealed Custom Surface Mount Package
- Eutectic Die Attach
- 175°C Operating Temperature
- Custom Lead Forming Available

- TX, TXV and Space Level Screening Available

CERPACK



MAXIMUM RATINGS

| RATING | SYMBOL | VALUE | UNIT |
|--|------------|-------------|-------|
| Peak Repetitive Reverse and DC Blocking Voltage | VRRM | 45 | Volts |
| | VRWM | | |
| | VR | | |
| Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C) | IO | 10 | Amps |
| Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on IO, allow junction to reach equilibrium between pulses, TA=25°C) | IFSM | 150 | Amps |
| Operating and storage temperature | Top & Tstg | -65 to +175 | °C |
| Maximum Thermal Resistance Junction to Case | RθJC | 1.0 | °C/W |

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: RS0127 A

MED

SSR1045G

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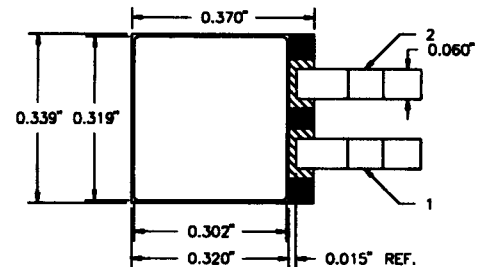
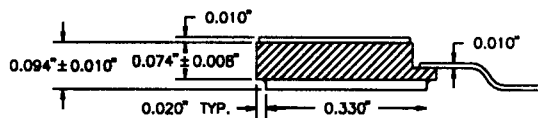
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ELECTRICAL CHARACTERISTICS

| CHARACTERISTICS | SYMBOL | MAXIMUM | UNIT |
|--|------------|--------------|---------------|
| Instantaneous Forward Voltage Drop ($I_F = 5 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 10 \text{ Adc}$, $T_A = 25^\circ\text{C}$, 300 μs Pulse) | VF1 | 0.52 0.63 | Vdc |
| Instantaneous Forward Voltage Drop ($I_F = 5 \text{ Adc}$, $T_A = -55^\circ\text{C}$, 300 μs Pulse) | VF2 | 0.58 | Vdc |
| Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum) | IR1 | 100 | μA |
| Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum) | IR2 | 10 | mA |
| Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$) | CJ | 400 | pf |

CASE OUTLINE: CERPACK

PIN OUT:
BOTTOM: CATHODE
PIN 1: ANODE
PIN 2: ANODE



TYPICAL OPERATING CURVES

($T_A = 25^\circ\text{C}$ Unless otherwise specified)

