



PRELIMINARY

SOLID STATE DEVICES, INC

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

SSR4040CT/61

Designer's Data Sheet

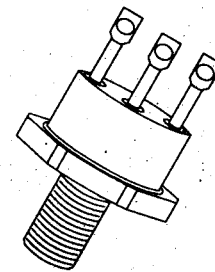
FEATURES:

- Extremely Low Forward Voltage Drop
- Hermetically Sealed Isolated Power Package
- Guard ring for overvoltage protection
- Eutectic Die Attach
- 150°C Operating Junction Temperature

- TX, TXV, and Space Level Screening Available

**40 AMP
40 VOLTS
POSITIVE CENTERTAP
SCHOTTKY RECTIFIER**

TO-61



MAXIMUM RATINGS

| RATING | SYMBOL | VALUE | UNIT |
|--|------------|-------------|-------|
| Peak Repetitive Reverse and DC Blocking Voltage | VRRM | 40 | Volts |
| | VRWM | | |
| | VR | | |
| Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C) | Io | 40 | 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 | 500 | Amps |
| Operating and storage temperature | Top & Tstg | -65 to +150 | °C |
| Maximum Thermal Resistance Junction to Case, both legs tied together | RθJC | 0.6 | °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#: RS0165 A

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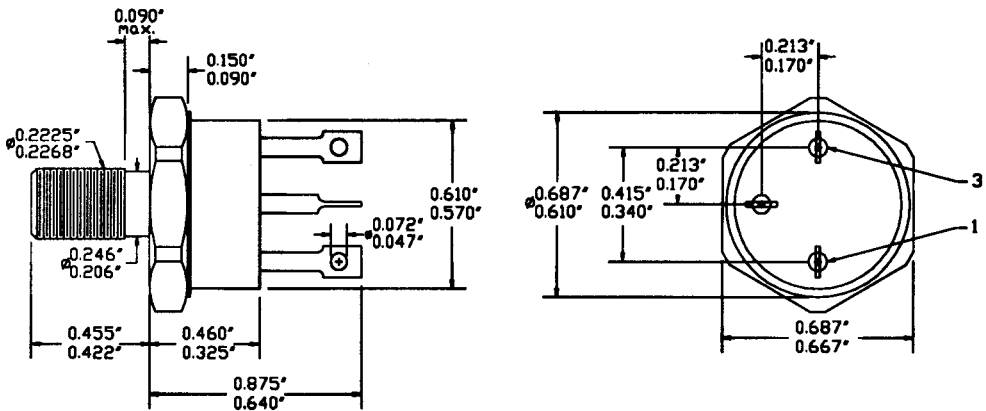
ELECTRICAL CHARACTERISTICS (Per Leg)

| CHARACTERISTICS | SYMBOL | MAXIMUM | UNIT |
|---|------------|----------------------|------|
| Instantaneous Forward Voltage Drop (IF = 5 Adc, TA=25°C, 300µs Pulse) (IF = 10 Adc, TA=25°C, 300µs Pulse) (IF = 20 Adc, TA=25°C, 300µs Pulse) | VF1 | 0.39 0.49 0.66 | Vdc |
| Instantaneous Forward Voltage Drop (IF = 10 Adc, TA= - 55°C, 300µs Pulse) | VF2 | 0.54 | Vdc |
| Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum) | IR1 | 5 | mA |
| Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum) | IR2 | 200 | mA |
| Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz) | CJ | 800 | pf |

CASE OUTLINE: TO-61

PIN OUT:

- PIN 1: ANODE 1**
- PIN 2: ANODE 2**
- PIN 3: CATHODE**



TYPICAL OPERATING CURVES

