



PRELIMINARY

SOLID STATE DEVICES, INC

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

SSR4040CT/61

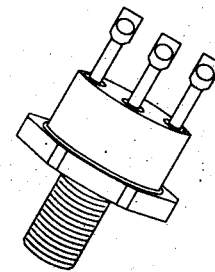
### Designer's Data Sheet

#### 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<br>(Resistive Load, 60Hz, Sine Wave, TA=25°C)  | Io         | 40          | Amps  |
| Peak Surge Current<br>(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<br>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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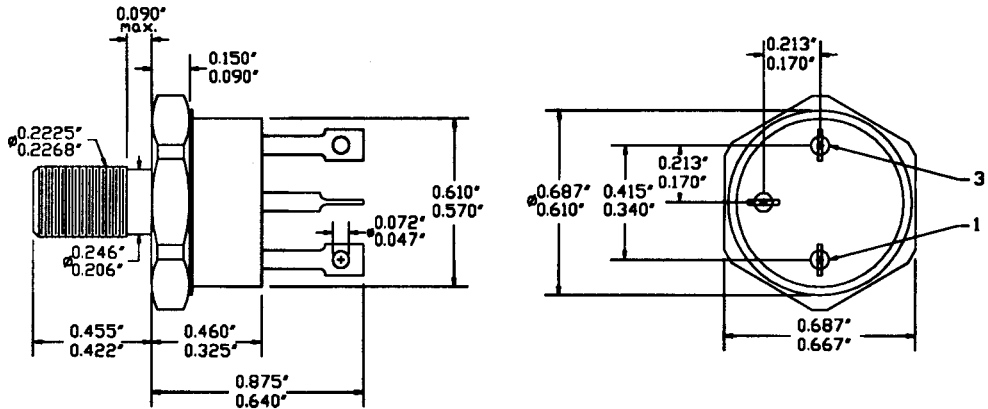
## ELECTRICAL CHARACTERISTICS (Per Leg)

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

