



PRELIMINARY ✓

SOLID STATE DEVICES, INC

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

SSR4045/61

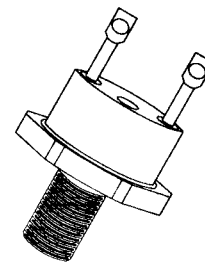
40 AMP  
45 VOLTS  
SCHOTTKY  
RECTIFIER

### Designer's Data Sheet

#### FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overvoltage protection
- Isolated Hermetically Sealed Power Package
- Eutectic Die Attach
- 175°C Operating Temperature
  
- TX, TXV and Space Level Screening Available

TO-61



### 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	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	600	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	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#: RS0037 A

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# SSR4045/61

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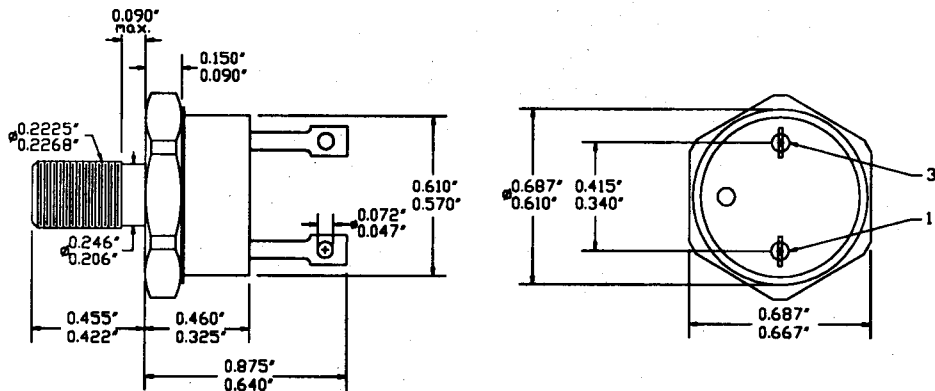
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## ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
<b>Instantaneous Forward Voltage Drop</b> (IF = 10 Adc, TA=25°C, 300µs Pulse) (IF = 20 Adc, TA=25°C, 300µs Pulse) (IF = 40 Adc, TA=25°C, 300µs Pulse)	VF1	0.55 0.68 0.93	Vdc
<b>Instantaneous Forward Voltage Drop</b> (IF = 20 Adc, TA= - 55°C, 300µs Pulse)	VF2	0.75	Vdc
<b>Reverse Leakage Current</b> (Rated VR, TA=25°C, 300µs pulse minimum)	IR1	400	µA
<b>Reverse Leakage Current</b> (Rated VR, TA=100°C, 300µs pulse minimum)	IR2	30	mA
<b>Junction Capacitance</b> (VR = 10 Vdc, TA=25°C, f= 1 MHz )	CJ	1600	pf

## CASE OUTLINE: TO-61

**PIN 1: ANODE**  
**PIN 3: CATHODE**  
**STUD: N/C**



## TYPICAL OPERATING CURVES

(TA=25°C unless otherwise specified)

