



SOLID STATE DEVICES, INC

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

PRELIMINARY

**SSR1008/59
SSR1009/59
SSR1010/59**

Designer's Data Sheet

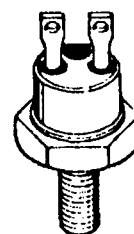
FEATURES:

- Extremely Low Forward Voltage Drop
- Low Reverse Leakage
- Hermetically Sealed Isolated Power Package
- Guard ring for overvoltage protection
- Eutectic Die Attach
- 175°C Operating Junction Temperature

- TX, TXV, and Space Level Screening Available

**10 AMP
80-100 VOLTS
SCHOTTKY
RECTIFIER**

TO-59



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SSR1008/59 SSR1009/59 SSR1010/59	VRRM VRWM VR	 80 90 100	Volts
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	200	Amps
Operating and storage temperature	Top & Tstg	-65 to +175	°C
Maximum Thermal Resistance Junction to Case	RθJC	1.4	°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#: RS0199 A

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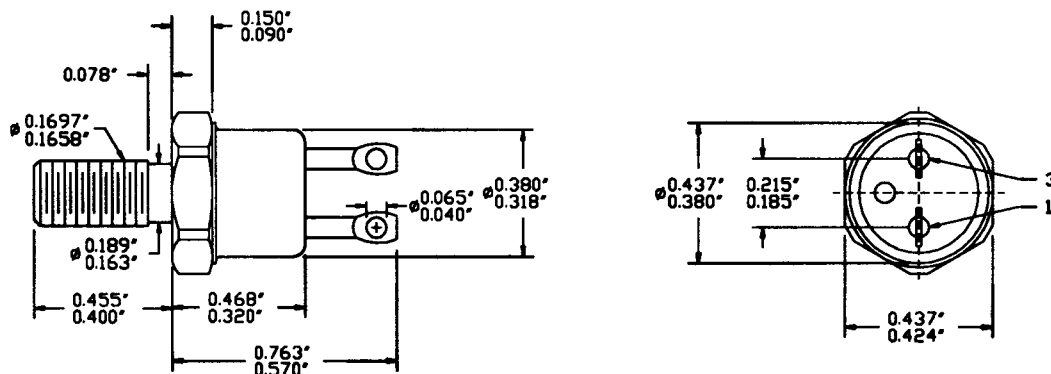
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 1 Adc, TA=25°C, 300µs Pulse) (IF = 5 Adc, TA=25°C, 300µs Pulse) (IF =10 Adc, TA=25°C, 300µs Pulse)	VF1	0.56 0.79 0.90	Vdc
Instantaneous Forward Voltage Drop (IF = 10 Adc, TA= - 55°C, 300µs Pulse)	VF2	0.82	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR1	10	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR2	500	µA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f = 1 MHz)	CJ	300	pf

CASE OUTLINE: TO-59

PIN OUT:

PIN 1: ANODE
PIN 3: CATHODE



TYPICAL OPERATING CURVES

(TA=25°C Unless otherwise specified)

