



SOLID STATE DEVICES, INC

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

PRELIMINARY

SSR0508/59
SSR0509/59
SSR0510/59

Designer's Data Sheet

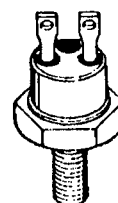
FEATURES:

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

- TX, TXV, and Space Level Screening Available

5 AMP
80-100 VOLTS
SCHOTTKY
RECTIFIER

TO-59



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SSR0508/59 SSR0509/59 SSR0510/59	VRRM VRWM VR	80 90 100	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	5	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#: RS0189 B

MED

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SSDI
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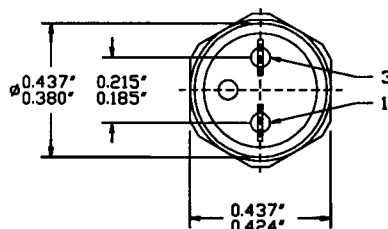
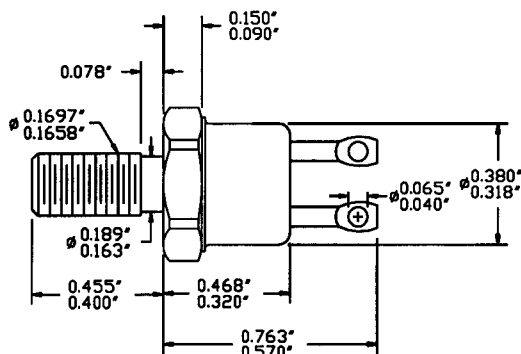
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 1 \text{ A}$ dc, $T_A = 25^\circ\text{C}$, 300 μs Pulse) ($I_F = 5 \text{ A}$ dc, $T_A = 25^\circ\text{C}$, 300 μs Pulse)	VF1	0.55 0.79	Vdc
Instantaneous Forward Voltage Drop ($I_F = 5 \text{ A}$ dc, $T_A = -55^\circ\text{C}$, 300 μs Pulse)	VF2	0.82	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, 300 μs pulse minimum)	IR1	25	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ\text{C}$, 300 μs pulse minimum)	IR2	1	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1 \text{ MHz}$)	CJ	300	pf

CASE OUTLINE: TO-59

PIN OUT:

PIN 1: ANODE
PIN 3: CATHODE



TYPICAL OPERATING CURVES

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

