



PRELIMINARY

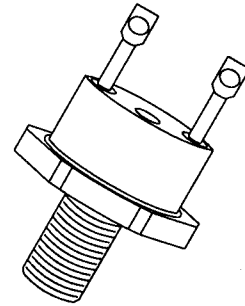
SOLID STATE DEVICES, INC14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424**Designer's Data Sheet****FEATURES:**

- Hyper Fast Recovery: 35 nsec Maximum
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Package
- Gold Eutectic Die Attach available
- Ultrasonic Aluminum Wire Bonds
- Isolated case (Stud)

- TX, TXV and Space Level Screening Available

**SDR950/61
thru
SDR952/61****60 AMP
100-200 VOLTS
35 nsec
HYPER FAST
RECTIFIER**

TO-61

**MAXIMUM RATINGS**

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage SDR950/61 SDR951/61 SDR952/61	VRRM VRWM VR	100 150 200	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	IO	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C)	IFSM	450	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case	RθJC	0.75	°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#: RH0045 B**

SDR950/61 thru SDR952/61

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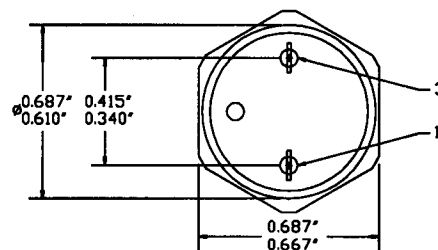
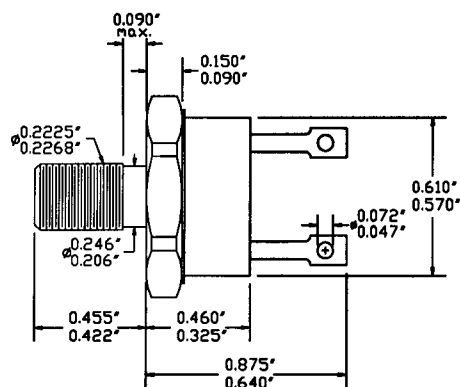
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 25 \text{ A dc}$, $T_A = 25^\circ \text{C}$, 300 μs Pulse) ($I_F = 50 \text{ A dc}$, $T_A = 25^\circ \text{C}$, 300 μs Pulse)	V_F	1.05 1.25	V_{dc}
Instantaneous Forward Voltage Drop ($I_F = 25 \text{ A dc}$, $T_A = 100^\circ \text{C}$, 300 μs Pulse) ($I_F = 25 \text{ A dc}$, $T_A = -55^\circ \text{C}$, 300 μs Pulse)	V_F	0.95 1.20	V_{dc}
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ \text{C}$, 300 μs pulse minimum)	I_R	100	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^\circ \text{C}$, 300 μs pulse minimum)	I_R	10	mA
Junction Capacitance ($V_R = 10 \text{ V dc}$, $T_A = 25^\circ \text{C}$, $f = 1 \text{ MHz}$)	C_J	450	pf
Reverse Recovery Time ($I_F = 500 \text{ mA}$, $I_R = 1 \text{ A}$, $I_{RR} = 250 \text{ mA}$, $T_A = 25^\circ \text{C}$)	t_{rr}	35	nsec

CASE OUTLINE: TO-61

PIN 1: ANODE
PIN 3: CATHODE



TYPICAL OPERATING CURVES

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

