



PRELIMINARY

SOLID STATE DEVICES, INC

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

**SDR950/3
thru
SDR952/3**

**60 AMP
100-200 VOLTS
35 nsec
HYPER FAST
RECTIFIER**

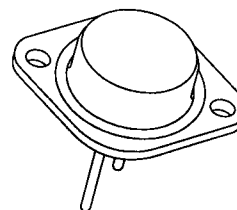
Designer's Data Sheet

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

- TX, TXV and Space Level Screening Available

TO-3



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse and DC Blocking Voltage	VRRM	100	Volts
SDR950/3	VRWM	150	
SDR951/3	VR	200	
SDR952/3			
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I _o	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C) note 1	I _{FSM}	700	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case	R _{θJC}	1.0	°C/W

note 1 Connect pins 1 & 2 together

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET#: RH0127 B

SDR950/3 thru SDR952/3

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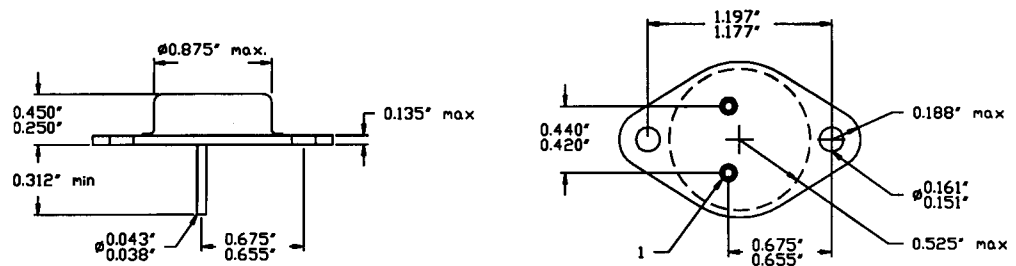
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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop (IF = 25 Adc, TA=25°C, 300µs Pulse) (IF = 50 Adc, TA=25°C, 300µs Pulse)	VF	0.95 1.05	Vdc
Instantaneous Forward Voltage Drop (IF = 25 Adc, TA= 100°C, 300µs Pulse) (IF = 25 Adc, TA= - 55°C, 300µs Pulse)	VF	0.85 1.20	Vdc
Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum)	IR	100	µA
Reverse Leakage Current (Rated VR, TA=100°C, 300µs pulse minimum)	IR	10	mA
Junction Capacitance (VR = 10 Vdc, TA=25°C, f= 1 MHz)	CJ	450	pf
Reverse Recovery Time (IF=500mA, IR=1 A, IRR=250mA, TA=25°C)	trr	35	nsec

CASE OUTLINE: TO-3

CASE: CATHODE
PIN 1: ANODE
PIN 2: ANODE



TYPICAL OPERATING CURVES TA=25°C Unless otherwise specified

