

**SDR950/3**  
 thru  
**SDR952/3**

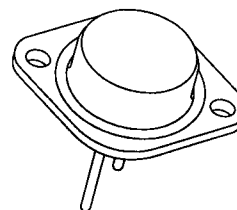
## Designer's Data Sheet

### 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

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

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 <sub>o</sub>	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, TA=25°C) note 1	I <sub>FSM</sub>	700	Amps
Operating and storage temperature	Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case	R <sub>θJC</sub>	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**

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PRELIMINARY



**SOLID STATE DEVICES, INC**

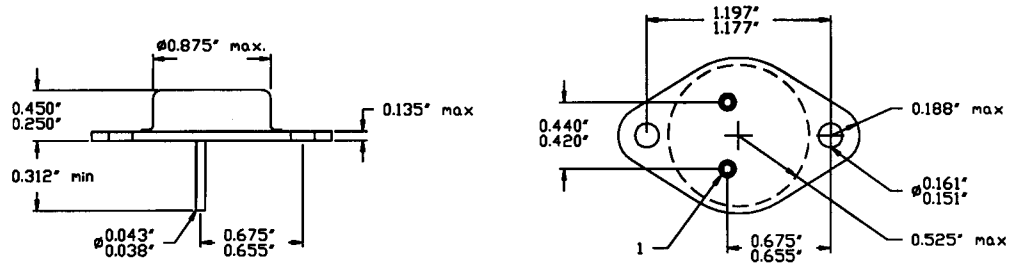
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**ELECTRICAL CHARACTERISTICS**

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

**CASE OUTLINE: TO-3**

CASE: CATHODE  
PIN 1: ANODE  
PIN 2: ANODE



**TYPICAL OPERATING CURVES**  
TA=25°C Unless otherwise specified

