

**Solid State Devices, Inc.**

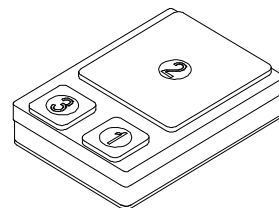
14701 Firestone Blvd * La Mirada, CA 90638

Phone: (562) 404-7855 * Fax: (562) 404-1773

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**SDR950S1
THRU
SDR952S1****DESIGNER'S DATA SHEET****Features:**

- Hyper Fast Recovery: 35nsec typical
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Surface Mount Power Package
- Gold Eutectic Die Attach Available
- Ultrasonic Aluminum Wire Bonds
- TX, TXV, and Space Level Screening Available.

**60 AMP
100-200 Volts
35nsec
Hyper Fast
Rectifier****SMD1**

Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage ^{1/}	SDR950S1	V_{RRM}	100	Volts
	SDR951S1	V_{RWM}	150	
	SDR952S1	V_R	200	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$)		I_o	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$) ^{1/}		I_{FSM}	600	Amps
Operating & Storage Temperature		Top & Tstg	-65 to +200	°C
Maximum Thermal Resistance Junction to Case,		R_{qJL}	0.8	°C/W

^{1/} Connect pins 2&3 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 #: RH0037C**DOC**



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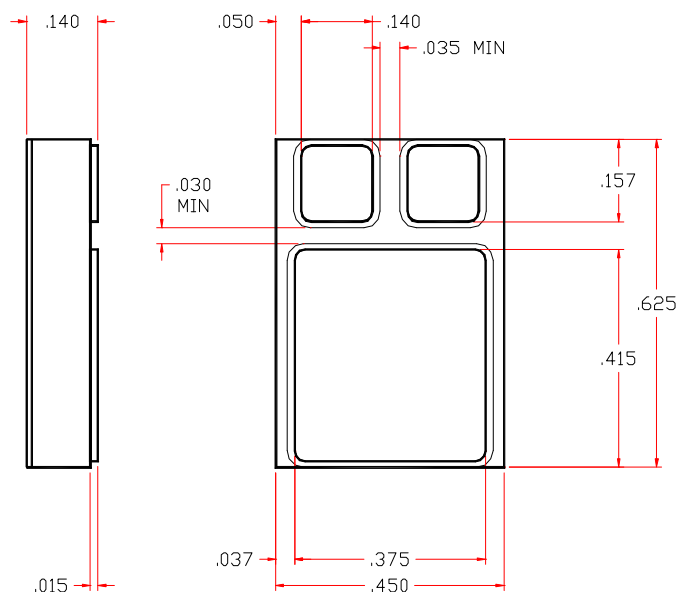
Electrical Characteristics		Symbol	Min	Max	Units
Instantaneous Forward Voltage Drop (IF=25Adc, T _A = 25°C, 300 µsec pulse) (IF=50Adc, T _A = 25°C, 300 µsec pulse)		V _{F1}	—	0.95 1.05	Volts
Instantaneous Forward Voltage Drop (IF= 50Adc, T _A = 100°C, 300 µsec pulse) (IF= 50Adc, T _A = -55°C, 300 µsec pulse)		V _{F2}	—	0.95 1.20	Volts
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300 µsec pulse minimum)		I _{R1}	—	10	mA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300 µsec pulse minimum)		I _{R2}	—	1	mA
Junction Capacitance (V _R = 10 Vdc, T _A = 25°C, f = 1MHz)		C _J	—	950	pF
Reverse Recovery Time (I _F = 0.5A, I _R = 1A, I _{RR} = 0.25A, T _A = 25°C)		t _{rr}	—	45	nsec

CASE OUTLINE: SMD1

Pin 1: CATHODE

Pin 2: ANODE

Pin 3: ANODE



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