



Solid State Devices, Inc.

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SDR950S1 THRU SDR952S1

DESIGNER'S DATA SHEET

Part Number/Ordering Information^{1/}

SDR95 _ _ _

Screening^{2/}

_ = Not Screened
TX = TX Level
TXV = TXV Level
S = S Level

Package

S1 = SMD1

Family/Voltage

0 = 100 V
1 = 150 V
2 = 200 V

**60 AMP
100 - 200 Volts
35 nsec
Hyperfast Rectifier**

Features:

- Hyperfast Recovery: 35 nsec 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

Maximum Ratings		Symbol	Value	Unit
Peak Repetitive Reverse and DC Blocking Voltage ^{3/}	SDR950S1	V_{RRM}	100	V
	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	A
Peak Surge Current ^{3/} (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$)		I_{FSM}	600	A
Operating & Storage Temperature		Top & Tstg	-65 to +200	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case		$R_{\theta JL}$	0.8	$^\circ\text{C/W}$

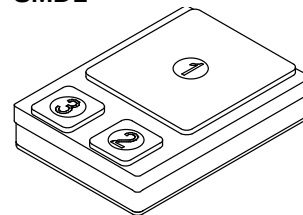
NOTES:

^{1/} For ordering information, price, and availability, contact factory.

^{2/} Screening based on MIL-PRF-19500. Screening flows available on request.

^{3/} Connect pins 2 & 3 together

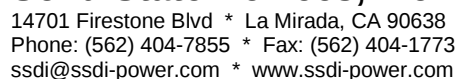
SMD1



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

DATA SHEET #: RH0037D

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Technical drawing of a mechanical part showing a side view and a bottom view.

Side View Dimensions:

- Top width: .145
- Top width: .130
- Bottom width: .020
- Bottom width: .010

Bottom View Dimensions:

- Top width: .145
- Top width: .135
- Top width: .215
- Top width: .205
- Right width: .162
- Right width: .152
- Right width: .630
- Right width: .620
- Right width: .420
- Right width: .410
- Bottom width: .380
- Bottom width: .370
- Bottom width: .455
- Bottom width: .445
- Left width: .030 MIN

Bottom View

DOCX