



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638

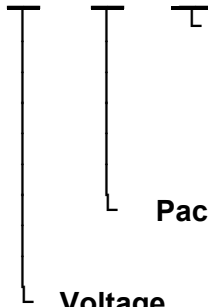
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ssdi@ssdi-power.com * www.ssdi-power.com

DESIGNER'S DATA SHEET

Part Number / Ordering Information ^{1/}

SSR15C



Screening ^{2/}

— = Not Screened

TX = TX Level

TXV = TXV Level

S = S Level

Package: D1 = TO-252 (D-Pack)

Voltage

50 = 500 V

80 = 800 V

60 = 600 V

100 = 1000 V

70 = 700 V

120 = 1200 V

SSR15C50D1 thru SSR15C120D1 Series

15 AMP / 1200 VOLTS SILICON CARBIDE SCHOTTKY RECTIFIER

Features:

- 1200 V Silicon Carbide Schottky Rectifier
- No Reverse Recovery
- No Forward Recovery
- No Switching Time Change Over Temperature
- Hermetic Packages Available
- Replaces SSR05C100 Series
- TX, TXV, and Space Level Screening Available ^{2/}

Maximum Ratings ^{3/}		Symbol	Value	Units
Peak Repetitive Reverse and Peak Surge Reverse Voltage	SSR15C50	V_{RRM} V_{RSM}	500	V
	SSR15C60		600	
	SSR15C70		700	
	SSR15C80		800	
	SSR15C100		1000	
	SSR15C120		1200	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave)		I_o	15	A
Non Repetitive Peak Surge Current ($T_A = 25^\circ\text{C}$)	$t_p = 8 \text{ ms}$	I_{FSM1}	30	A
	$t_p = 10 \mu\text{s}$	I_{FSM2}	100	
Power Dissipation		P_D	136	W
Operating & Storage Temperature		Top & Tstg	-55 to +175	$^\circ\text{C}$
Thermal Resistance Junction to Case		$R_{\theta JC}$	1.1 typ	$^\circ\text{C/W}$

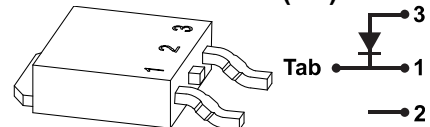
NOTES:

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

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

^{3/} All electrical characteristics @25°C unless otherwise specified.

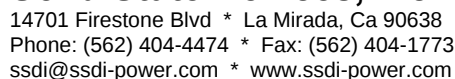
TO-252 (D1)



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

DATA SHEET #: SH0114A

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