



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
 Phone: (562) 404-4474 * Fax: (562) 404-1773
 ssdi@ssdi-power.com * www.ssdi-power.com

Designer's Data Sheet

Part Number/Ordering Information ^{1/}

SDR91

	Screening ^{2/}	= Not Screened TX = TX Level TXV = TXV Level S = S Level
	Lead Options	= Straight Leads, DB = Bent Down UB = Bent Up
	Package	N = TO-258 P = TO-259
	Configuration	CT = Common Cathode CA = Common Anode D = Doubler DR = Doubler Reverse
Family/Voltage		03 = 300V 04 = 400V 05 = 500V

SDR9103CTN&P thru SDR9105CTN&P

100 AMP, 300 - 500 VOLTS 40 nsec HYPER FAST CENTERTAP RECTIFIER

FEATURES:

- Hyper Fast Recovery: 40 ns Maximum
- High Surge Rating
- Low Reverse Leakage Current
- Hermetically Sealed Low Profile Package
- Gold Eutectic Die Attach Available
- Ultrasonic Aluminum Wire Bonds
- Ceramic Seal for Improved Hermeticity Available
- Common Anode and Doubler Versions Available
- TX, TXV, or Space Level Screening Available

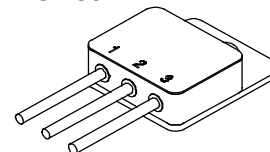
MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SDR9103CTN & P SDR9104CTN & P SDR9105CTN & P	V_{RRM} V_{RWM} V_R	300 400 500
Average Rectified Output Current ^{3/} (Resistive Load, 60Hz, Sine Wave, $T_A=25^{\circ}C$)	I_O	100	Amps
Peak Surge Current ^{4/} (8.3 ms Pulse, Half Sine Wave, $T_A=25^{\circ}C$)	I_{FSM}	500	Amps
Operating and Storage Temperature	T_{OP} & T_{STG}	-65 to +200	$^{\circ}C$
Maximum Thermal Resistance Junction to Case ^{3/} Junction to Case (Each Individual Diode)	$R_{\theta JC}$	0.4 0.73	$^{\circ}C/W$

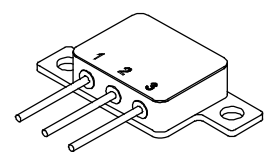
NOTES:

- ^{1/} For ordering Information, Price, and Availability, Contact Factory.
^{2/} Screening per MIL-PRF-19500
^{3/} Both Legs Tied Together.
^{4/} Available with Higher Surge Ratings.

TO-258



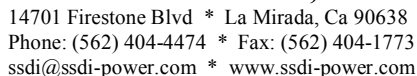
TO-259



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

DATA SHEET #: RH0033F

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