



Solid State Devices, Inc.

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DESIGNER'S DATA SHEET

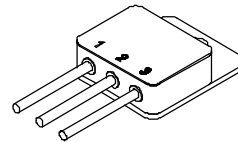
Features:

- Soft Recovery Diode
- Ultra Fast Recovery: 80 nsec Maximum
- Faster Recovery Versions Available
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Package
- Gold Eutectic Die Attach Available
- Ultrasonic Aluminum Wire Bond
- Ceramic Seals for Improved Hermeticity Available
- Common Anode and Doubler Versions Available
- TX, TXV, Space Level Screening Available. Consult Factory.

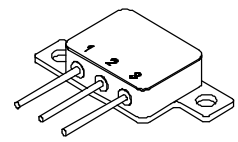
**SDR966CTN & SDR966CTP
thru
SDR969CTN & SDR969CTP**

**60 AMP
600 - 900 Volts
80 nsec
Ultra Fast Recovery
Centertap Rectifier**

TO-258 (N)



TO-259 (P)



Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	SDR966CTN & SDR966CTP	V_{RRM}	600	Volts
	SDR967CTN & SDR967CTP	V_{RWM}	700	
	SDR968CTN & SDR968CTP	V_R	800	
	SDR969CTN & SDR969CTP	V_R	900	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$) ^{1/}		I_o	60	Amps
Peak Surge Current (Per Leg) (8.3 ms Pulse, Half Sine Wave Superimposed on I_o , Allow Junction to Reach Equilibrium Between Pulses, $T_A = 25^\circ\text{C}$)		I_{FSM}	500*	Amps
Operating & Storage Temperature		Top & Tstg	-65 to +200	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case, Each Individual Diode Junction to Case ^{1/}		R_{qJE}	1.3 0.7	$^\circ\text{C/W}$

Notes:

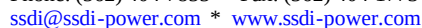
^{1/} Both Legs Tied Together

* Available with Higher Surge Rating

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

DATA SHEET #: RU0077B

DOC



Graph of Forward Voltage vs. Forward Current for a 1N4148 diode. The y-axis is Forward Current (Amps) on a log scale from 0.01 to 100. The x-axis is Forward Voltage (Volts) from 0.4 to 1.2. The curve shows an exponential relationship, starting around 0.5V and 0.01A, and reaching 100A at approximately 1.15V.