

**SDR966CTN & SDR966CTP
 thru
 SDR969CTN & SDR969CTP**

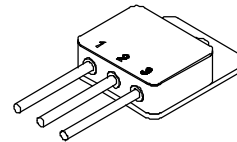
DESIGNER'S DATA SHEET

Features:

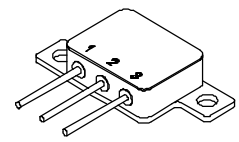
- Soft Recovery Diode
- Ultra Fast Recovery: 80 nsec Maximum
- Faster Recovery Versions Available
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Package
- Gold Eutectic Die Attach Available
- Ultrasonic Aluminum Wire Bond
- Ceramic Seals for Improved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

**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		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	°C
Maximum Thermal Resistance Junction to Case, Each Individual Diode Junction to Case ^{1/}		R_{qJE}	1.3 0.7	°C/W

Notes:

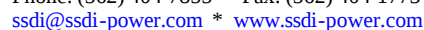
^{1/} Both Legs Tied Together

* 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 Current vs. Forward Voltage. The y-axis is Forward Current (Amps) on a logarithmic 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 near 0.01A at 0.5V and reaching 100A at 1.2V.