



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/}

SDR60

Screening ^{2/}

— = Not Screened
 TX = TX Level
 TXV = TXV Level
 S = S Level

Package Type

N = TO-258
 P = TO-259

Configuration

CT = Common Cathode
 CA = Common Anode
 D = Doubler
 DR = Doubler Reverse

Voltage/Family

080 = 800V
 090 = 900V
 100 = 1000V
 110 = 1100V
 120 = 1200V

Recovery Time

U = Ultra Fast

**SDR60U080CT
 thru
 SDR60U120CT
 Series**

**60 AMP
 ULTRA FAST LOW VF
 CENTERTAP RECTIFIER
 800 -1200 Volts
 55 nsec**

Features:

- Ultra Fast Recovery: 40 nsec typical
- High Surge Rating
- Low Reverse Leakage Current
- Low Forward Voltage Drop
- Low Junction Capacitance
- Hermetically Sealed Package
- Gold Eutectic Die Attach available
- Ultrasonic Aluminum Wire Bonds
- Ceramic Seals for improved hermeticity available
- Available in Centertap and Doubler versions
- TX, TXV, Space Level Screening Available Consult Factory.

Maximum Ratings		Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	SDR60U080	V_{RRM}	800	Volts
	SDR60U090		900	
	SDR60U100	V_{RWM}	1000	
	SDR60U110		1100	
	SDR60U120	V_R	1200	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$) ^{3/4/}		I_o	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_o , Allow Junction to Reach Equilibrium Between Pulses, $T_A = 25^\circ\text{C}$) ^{3/}		I_{FSM}	400	Amps
Operating & Storage Temperature		Top & Tstg	-65 to +200	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case, each individual diode Junction to Case ^{3/}		$R_{\theta JE}$	1.0 0.75	$^\circ\text{C/W}$

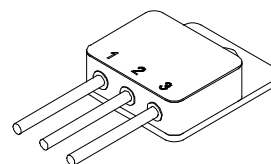
^{1/} For ordering information, price, operating curves, and availability - Contact factory.

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

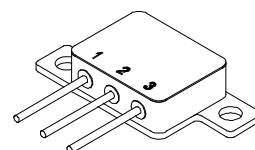
^{3/} Both legs tied together.

^{4/} Package limited.

TO-258 (N)



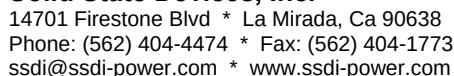
TO-259 (P)



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

DATA SHEET #: RC0145B

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