



PRELIMINARY

SED120LB100
SED120LE100**SOLID STATE DEVICES, INC.**

14830 Valley View Ave. * La Mirada, Ca 90638

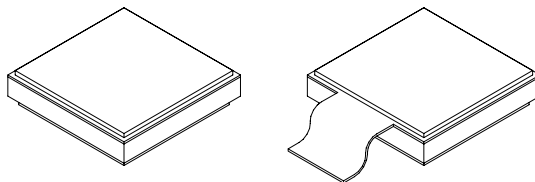
Phone: (562) 404-7855 * Fax: (562) 404-1773

Designer's Data Sheet**FEATURES:**

- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Power Surface Mount Package
- Guard Ring for Overvoltage Protection
- Eutectic Die Attach
- 175°C Operating Temperature
- TX, TXV and Space Level Screening Available

120 AMP
100 VOLTS
SCHOTTKY
RECTIFIER

SEDPACK 3



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_C = 100^\circ\text{C}$)	I_o	120	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on I_o , allow junction to reach equilibrium between pulses, $T_A = 25^\circ\text{C}$)	I_{FSM}	1000	Amps
Operating and Storage Temperature	Top & Tstg	-55 TO +175	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	0.3	$^\circ\text{C/W}$

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

DATA SHEET #: SH0014B

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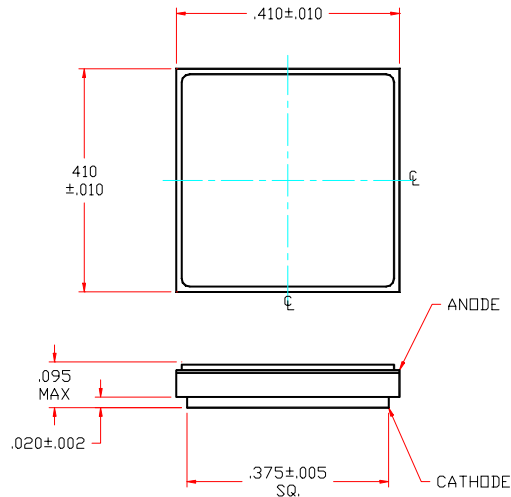


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Electrical Characteristics	SYMBOL	VALUE	UNITS
Instantaneous Forward Voltage Drop ($I_F = 40A_{DC}$, $T_A = 25^\circ C$, 300 μs Pulse) ($I_F = 120A_{DC}$, $T_A = 25^\circ C$, 300 μs Pulse)	V_{F1} V_{F2}	0.71 0.91	V_{DC}
Instantaneous Forward Voltage Drop ($I_F = 120A_{DC}$, $T_A = 125^\circ C$, 300 μs Pulse)	V_{F3}	0.74	V_{DC}
Reverse Leakage Current Rated V_R , $T_A = 25^\circ C$, 300 μsec pulse minimum	I_{R1}	5.0	mA
Reverse Leakage Current Rated V_R , $T_A = 125^\circ C$, 300 μsec pulse minimum	I_{R2}	100	mA
Junction Capacitance ($V_R = 5V_{DC}$, $T_A = 25^\circ C$, $f = 1MHz$)	C_J	3200	pF

CASE OUTLINE: P/N SED120LB100



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