

14701 Firestone Blvd * La Mirada, CA 90638-5223 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

Designer's Data Sheet

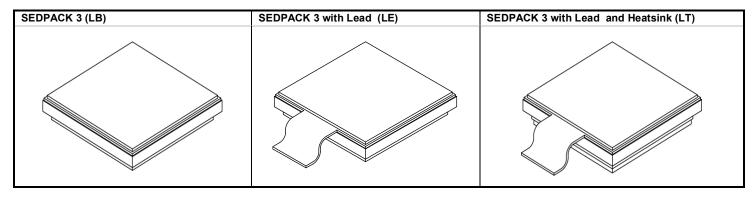
SED120LB100, SED120LE100, and SED120LT100

120 A / 100 V Schottky Rectifier

FEATURES:

- 100 Volt Schottky Rectifier
- Average Output Current 120 Amps
- Low Reverse Leakage
- Low Forward Voltage Drop
- Hermetically Sealed Power Surface Mount Package
- Guard Ring for Overvoltage Protection
- Eutectic Die Attach
- TX, TXV, and Space Level Screening Available ²/. Consult Factory.

MAXIMUM RATINGS 3/2	Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	Volts
Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, T _C = 100°C)	Io	120	Amps
Peak Surge Current (8.3 ms pulse, half sine wave superimposed on Io, allow Junction to reach equilibrium between pulses, $T_A = 25^{\circ}C$)	I _{FSM}	1000	Amps
Operating & Storage Temperature	T _{OP} & T _{stg}	-55 to +150	°C
Maximum Thermal Resistance (Junction to Case)	R _{eJC}	0.3	°C/W



NOTES:

- 1/ For Ordering Information, Price, and Availability Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.



Solid State Devices, Inc.

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ELECTRICAL CHARACTERISTICS 3/	Symbol	Maximum Value	Units
$\begin{array}{ll} \mbox{Instantaneous Forward Voltage Drop} & \mbox{$I_F=40$ A} \\ \mbox{$(T_A=25^{\circ}C, 300 \; \mu sec \; pulse)} & \mbox{$I_F=120$ A} \end{array}$		0.71 0.95	V _{DC}
Instantaneous Forward Voltage Drop T_A = 125°C, I_F = 120 A (300 µsec pulse)	V _{F3}	0.78	V _{DC}
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300 μsec pulse minimum)	I _{R1}	5.0	mA
Reverse Leakage Current (Rated V _R , T _A = 125°C, 300 μsec pulse minimum)	I _{R2}	100	mA
Junction Capacitance $(V_R = 5V, f = 1MHz, T_A = 25^{\circ}C)$	CJ	3200	pF

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PIN ASSIGNMENT					
Package	TOP	воттом	LEAD		
Sedpack 3 (LB)	Anode	Cathode			
Sedpack 3 with Lead (LE)	Anode	Cathode	Anode		
Sedpack 3 with Lead (LT)	Anode	Cathode	Anode		

ANODE .020" ±.002" 2.010" .370"±.005" .020" ±.002" .020" .02

