

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

Designer's Data Sheet

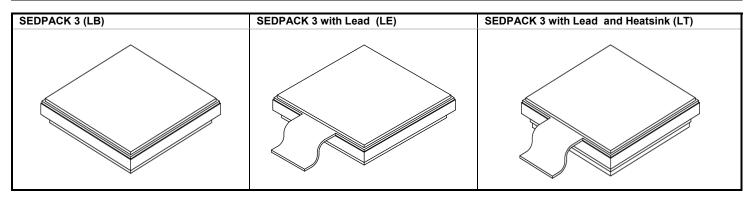
SED120LB100, SED120LE100, and SED120LT100

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		$egin{array}{c} oldsymbol{V_{RMM}} \ oldsymbol{V_{R}} \end{array}$	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:

- $\underline{1}/$ For ordering information, price, and availability, contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Unless otherwise specified, all electrical characteristics @25°C.



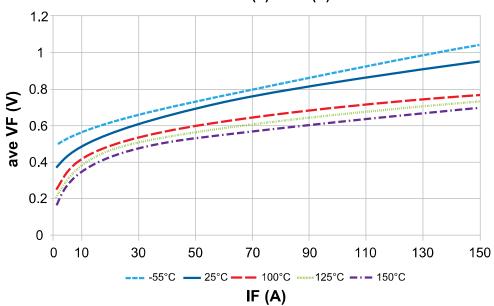
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ELECTRICAL CHARACTERISTICS 3/	Symbol	Maximum Value	Units
$ \begin{array}{ll} \mbox{Instantaneous Forward Voltage Drop} & \mbox{$I_F=40$ A} \\ \mbox{$(T_A=25^{\circ}C, 300 \ \mu sec \ pulse)} & \mbox{$I_F=120$ A} \\ \end{array} $		0.71 0.95	V _{DC}
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

SED120Lx100

Ave VF (V) vs. IF (A)



NOTES:

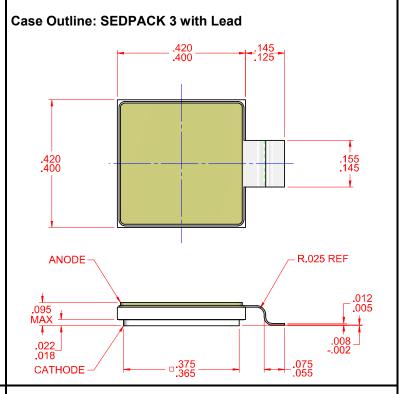
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ANODE ANODE ANODE ANODE CATHODE CATHODE A375 CATHODE



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			

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