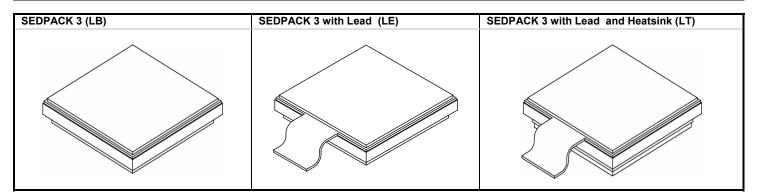
Solid State Devices, Inc. 14701 Firestone Blvd * La Mirada, CA 90638-5223	SED120LB100, SED120LE100, and SED120LT100
Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com Designer's Data Sheet	120 A / 100 V Schottky Rectifier
Part Number / Ordering Information $1^{1/2}$ SED120 \Box \Box Screening $2^{1/2}$ = Not Screened $TX = TX Level$ $TXV = TXV$ $S = S Level$ $Voltage$ $100 = 100 V$ V PackageLB = Sedpack 3LE = Sedpack 3 with LeadLT = Sedpack 3 with Lead and Heatsink	 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 175°C Operating Temperature TX, TXV, and Space Level Screening Available ^{2/}. Consult Factory.

MAXIMUM RATINGS ^{3/}	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)	lo	120	Amps
Peak Surge Current (8.3 ms pulse, half sine wave superimposed on lo, 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 +175	°C
Maximum Thermal Resistance (Junction to Case)	R _{θJC}	0.3	°C/W



NOTES:

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

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release. DATA SHEET #: SH0014D DOC

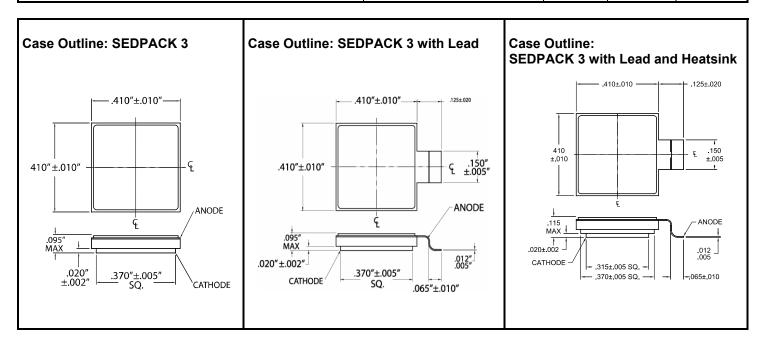
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SED120LB100, SED120LE100, and SED120LT100

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ELECTRICAL CHARACTERISTICS 3/	Symbol	Maximum Value	Units
Instantaneous Forward Voltage Drop $I_F = 40 \text{ A}$ $(T_A=25^{\circ}\text{C}, 300 \ \mu\text{sec pulse})$ $I_F = 120 \text{ A}$	$V_{F1} V_{F2}$	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 μ sec pulse minimum)	I _{R1}	5.0	mA
Reverse Leakage Current (Rated V _R , T _A = 125°C, 300 μ sec pulse minimum)	I _{R2}	100	mA
Junction Capacitance ($V_R = 5V$, f = 1MHz, $T_A = 25^{\circ}C$)	CJ	3200	pF

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



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: SH0014D	DOC
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