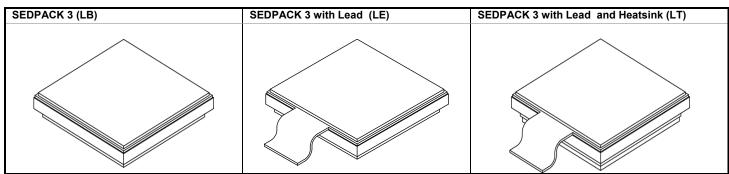
Solid State Devices, Inc. 14701 Firestone Blvd * La Mirada, CA 90638-5223 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com	SED100LB100, SED100LE100 and SED100LT100	
Designer's Data Sheet Part Number / Ordering Information ^{1/}	100 A / 100 V Low Leakage Schottky Rectifier	
SED100 SED100 Screening ^{2/} <u>s</u> = Not Screened TX = TX Level TXV = TXV Level S = S Level Voltage 100 = 100 V Package LB = Sedpack 3 LE = Sedpack 3 with Lead LT = Sedpack 3 with Lead and Heatsink	 FEATURES: 100 Volt Schottky Rectifier Average Output Current: 100 Amps Very Low Reverse Leakage and Low Forward Voltage Drop – significantly superior performance to 1N6885 and 1N6905 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/}	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	100	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 _{θJC}	0.3	°C/W



NOTES:

- <u>1</u>/ For ordering information, price, and availability, contact factory.
 <u>2</u>/ Screening based on MIL-PRF-19500. Screening flows available on request.
 <u>3</u>/ 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 #: SH0097A DOC

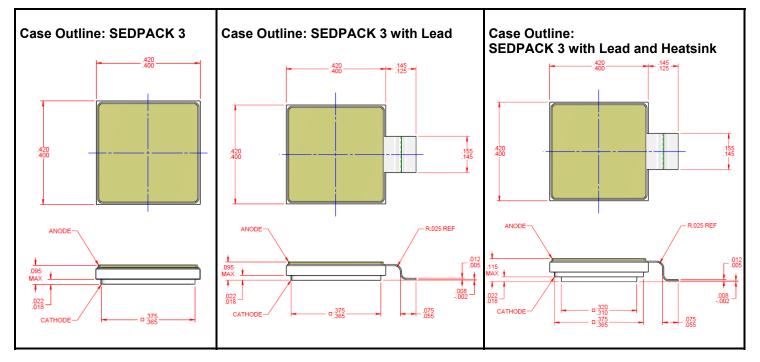
SSDI Solid State Devid

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SED100LB100, SED100LE100, and SED100LT100

ssal@ssal-power.com			
ELECTRICAL CHARACTERISTICS ^{3/}	Symbol	Maximum Value	Units
Instantaneous Forward Voltage Drop $I_F = 40 \text{ A}$ $(T_A=25^{\circ}\text{C}, 300 \ \mu\text{sec pulse})$ $I_F = 120 \text{ A}$		0.75 0.99	V _{DC}
Instantaneous Forward Voltage Drop (300 μ sec pulse) T _A = 125°C, I _F = 120 A	V _{F3}	0.80	V _{DC}
Reverse Leakage Current (Rated V _R , $T_A = 25^{\circ}$ C, 300 µsec pulse minimum)	I _{R1}	0.05	mA
Reverse Leakage Current (Rated V _R , $T_A = 125$ °C, 300 µsec pulse minimum)	I _{R2}	5	mA
Junction Capacitance ($V_R = 5V$, f = 1MHz, $T_A = 25^{\circ}C$)	CJ	3200	pF

 NOTES: <u>1</u>/ For ordering information, price, and availability, contact factory. <u>2</u>/ Screening based on MIL-PRF-19500. Screening flows available on request. <u>3</u>/ 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.		200
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