



PRELIMINARY

SOLID STATE DEVICES, INC.

14005 Stage Road * Santa Fe Springs, Ca 90670
Phone: (562) 404-4474 * Fax: (562) 404-1773

Designer's Data Sheet

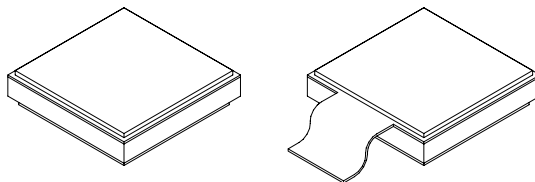
FEATURES:

- 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

SED110LB30
SED110LE30

110 AMP
30 VOLTS
SCHOTTKY
RECTIFIER

SEDPACK 3



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	30	Volts
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, $T_C = 100^\circ\text{C}$)	I_o	110	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 #: SH0015A

SED110LB30 SED110LE30

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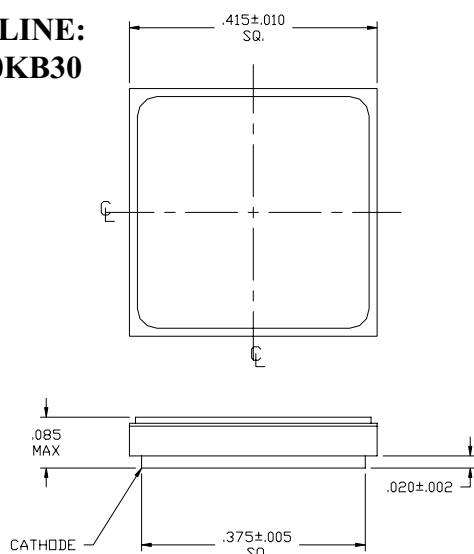
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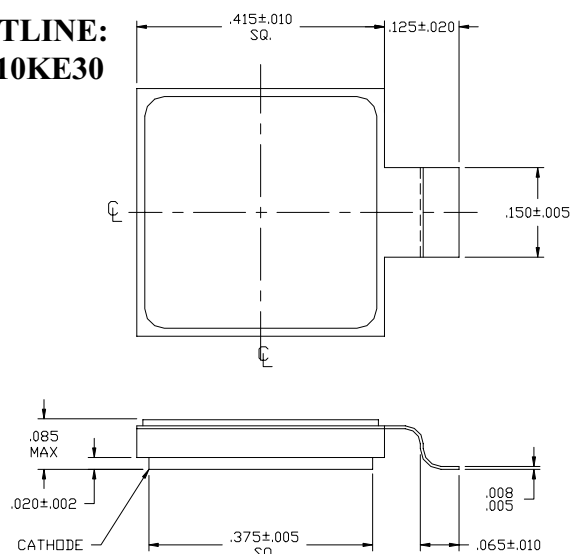
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Electrical Characteristics	SYMBOL	VALUE	UNITS
Instantaneous Forward Voltage Drop $(I_F = 25A_{DC}, T_A = 25^\circ C, 300\mu s \text{ Pulse})$ $(I_F = 50A_{DC}, T_A = 25^\circ C, 300\mu s \text{ Pulse})$ $(I_F = 110A_{DC}, T_A = 25^\circ C, 300\mu s \text{ Pulse})$	V_{F1} V_{F2} V_{F3}	0.40 0.46 0.55	V_{DC}
Instantaneous Forward Voltage Drop $(I_F = 110A_{DC}, T_A = 125^\circ C, 300\mu s \text{ Pulse})$	V_{F4}	0.52	V_{DC}
Reverse Leakage Current Rated V_R , $T_A = 25^\circ C$, 300 μ sec pulse minimum	I_{R1}	7.5	mA
Reverse Leakage Current Rated V_R , $T_A = 125^\circ C$, 300 μ sec pulse minimum	I_{R2}	500	mA
Junction Capacitance $(V_R = 5V_{DC}, T_A = 25^\circ C, f = 1MHz)$	C_J	7500	pF

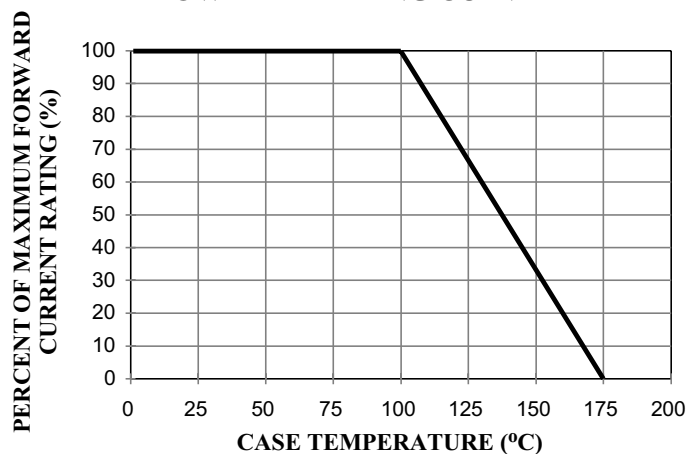
CASE OUTLINE: P/N SED110KB30



CASE OUTLINE: P/N SED110KE30



POWER DERATING CURVE



FORWARD VOLTAGE @ $T_A = 25^\circ C$

