SOLID STATE DEVICES, INC.
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773
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SED60KB100
SED60KE100

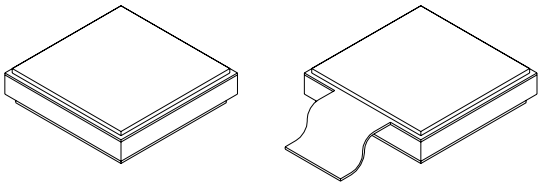
Designer's Data Sheet

60 AMP
100 VOLTS
SCHOTTKY
RECTIFIER

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**

SEDPACK 2



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	V_{RRM} V_{RWM} V_R	**100**	**Volts**
Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, T_C= 100°C)	**Io**	**60**	**Amps**
Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, T_A = 25°C)	I_{FSM}	**500**	**Amps**
Operating and Storage Temperature	**Top & Tstg**	**-55 TO +175**	**°C**
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	**0.70**	**°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 #: RSED05E

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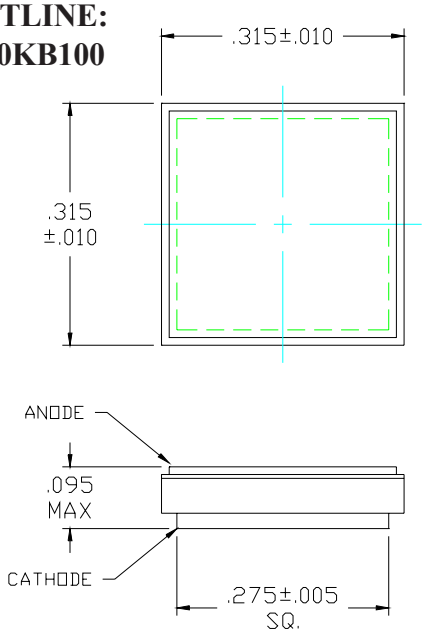
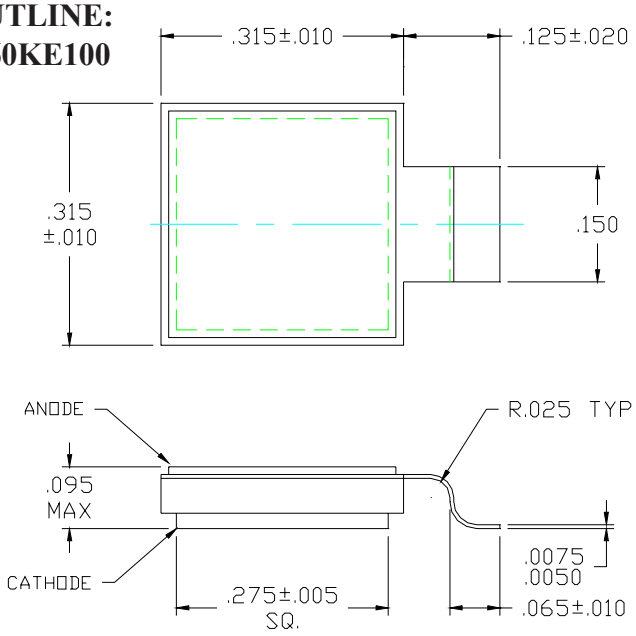
Electrical Characteristics		SYMBOL	VALUE	UNITS
Instantaneous Forward Voltage Drop (T_A = 25°C, 300 -500 µs Pulse)	I_F = 30A_{DC} I_F = 60A_{DC}	V_{F1} V_{F2}	**0.85** **1.0**	V_{DC}
Instantaneous Forward Voltage Drop (I_F = 30A_{DC}, T_A =+125°C, 300 - 500 µs Pulse)		V_{F3}	**0.65**	V_{DC}
Reverse Leakage Current (Rated V_R , 300 µsec pulse minimum)	T_A = 25°C T_A = 125°C	I_{R1} I_{R2}	**6.0** **20**	**mA**
Junction Capacitance (V_R = 5V_{DC}, T_A = 25°C, f = 1MHz)		C_J	**1500**	**pF**

CASE OUTLINE:
P/N SED60KB100



CASE OUTLINE:
P/N SED60KE100



TYPICAL OPERATING CURVES

(T_A = 25°C unless otherwise specified)