



PRELIMINARY

SOLID STATE DEVICES, INC

14849 Firestone Boulevard · La Mirada, CA 90638
Phone: (714) 670-SSDI (7734) · Fax: (714) 522-7424

SED150LB30
SED150LE30

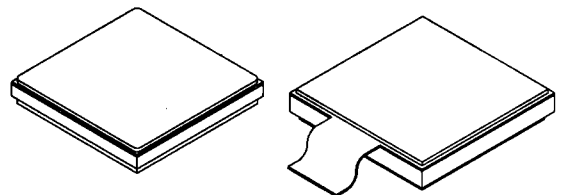
150 AMPS
30 VOLTS
SCHOTTKY
RECTIFIER

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

SEDPACK 3



MAXIMUM RATINGS

| RATING | SYMBOL | VALUE | UNIT |
|--|--------------------|-------------|-------|
| Peak Repetitive Reverse and DC Blocking Voltage | VRRM VRWM VR | 30 | Volts |
| Average Rectified Forward Current (Resistive Load, 60Hz, Sine Wave, TC=100°C) | Io | 150 | Amps |
| Peak Surge Current (8.3 ms Pulse, Half Sine Wave Superimposed on Io, allow junction to reach equilibrium between pulses, TA=25°C) | IFSM | 1000 | Amps |
| Operating and storage temperature | Top & Tstg | -55 TO +175 | °C |
| Maximum Thermal Resistance Junction to Case | RθJC | 0.2 | °C/W |

ELECTRICAL CHARACTERISTICS

| | | | |
|---|-----|----------------------|-----|
| Instantaneous Forward Voltage Drop (IF = 50 Adc, TA=25°C, 300µs Pulse) (IF = 110 Adc, TA=25°C, 300µs Pulse) (IF = 150 Adc, TA=25°C, 300µs Pulse) | VF1 | 0.46 0.55 0.65 | Vdc |
| Instantaneous Forward Voltage Drop (IF = 150 Adc, TA= +125°C, 300µs Pulse) | VF2 | 0.60 | Vdc |
| Reverse Leakage Current (Rated VR, TA=25°C, 300µs pulse minimum) | IR1 | 7.5 | mA |
| Reverse Leakage Current (Rated VR, TA=125°C, 300µs pulse minimum) | IR2 | 500 | mA |
| Junction Capacitance (VR = 5 Vdc, TA=25°C, f= 1 MHz) | CJ | 7500 | pf |

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

DATA SHEET#: RSED15 A

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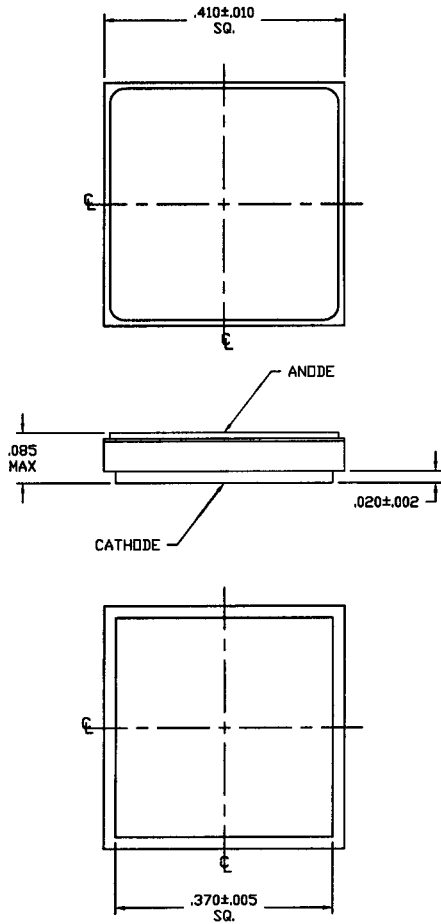
**SED150LB30
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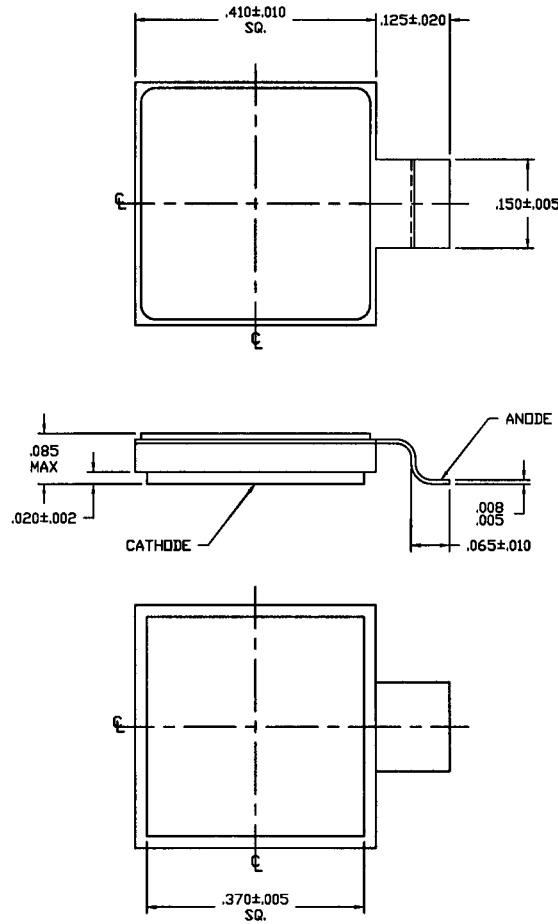
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**CASE OUTLINE:
P/N SED150LB30**



**CASE OUTLINE:
P/N SED150LE30**



TYPICAL OPERATING CURVES
($T_A = 25^\circ\text{C}$ unless otherwise specified)

