

| Solid State Devices, Inc. | |
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| 4701 Firestone Blvd * La Mirada, CA 90638-52 | 23 |
| hone: (562) 404-4474 * Fax: (562) 404-1773 | |
| di@ssdi-power.com * <u>www.ssdi-power.com</u> | |

Designer's Data Sheet

Part Number / Ordering Information ^{1/}

SED150

Screening^{2/} = Not Screened TX = TX Level TXV = TXV Level S = S Level **Voltage** 30 = 30 V **Package** LB = Sedpack 3 LE = Sedpack 3 with Lead LT = Sedpack 3 with Lead and Heatsink

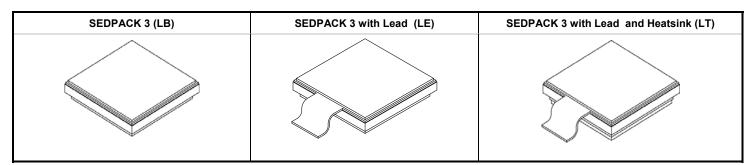
SED150LB30, SED150LE30, and SED150LT30

150 Amp / 30 Volts Schottky Rectifier

FEATURES:

- 30 Volt Schottky Rectifier
- Average Output Current 150 Amps
- Low Reverse Leakage
- Low Forward Voltage Drop
- 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 | 30 | Volts | |
| Average Rectified Forward Current (Resistive Load, 60 Hz, Sine Wave, $T_c = 100^{\circ}C$) | Ι _ο | 150 | 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 +150 | °C | |
| Maximum Thermal Resistance (Junction to Case) | R _{θJC} | 0.3 | °C/W | |



NOTES:

- 1/ For ordering information, price, and availability Contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- $\underline{3}$ / 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 #: RSED15E | DOC |
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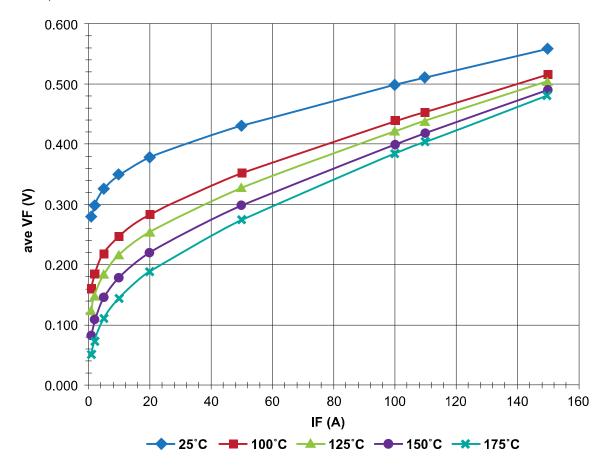
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Devices, Inc. State 14701 Firestone Blvd * La Mirada, CA 90638-5223 Phone: (562) 404-4474 * Fax: (562) 404-1773 * andi@a di 1

| ELECTRICAL CHARACTERISTICS ^{3/} | | Symbol | Maximum Value | Units |
|--|---|---|----------------------|-----------------|
| Instantaneous Forward Voltage Drop (T _A =25°C, 300-500 μsec pulse) | I _F = 50 A I _F = 110 A I _F = 150 A | V _{F1} V _{F2} V _{F3} | 0.46 0.55 0.65 | V _{DC} |
| Instantaneous Forward Voltage Drop (300-500 μsec pulse) | T_A = 125°C, I _F = 150 A | V _{F4} | 0.60 | V _{DC} |
| Reverse Leakage Current (Rated V _R , $T_A = 25^{\circ}$ C, 300 µsec pulse minimum) | | I _{R1} | 7.5 | mA |
| Reverse Leakage Current (Rated V _R , T _A = 125ºC, 300 μsec pulse minimum |) | I _{R2} | 750 | mA |
| Junction Capacitance ($V_R = 5V$, f = 1MHz, $T_A = 25^{\circ}C$) | | CJ | 7000 | pF |

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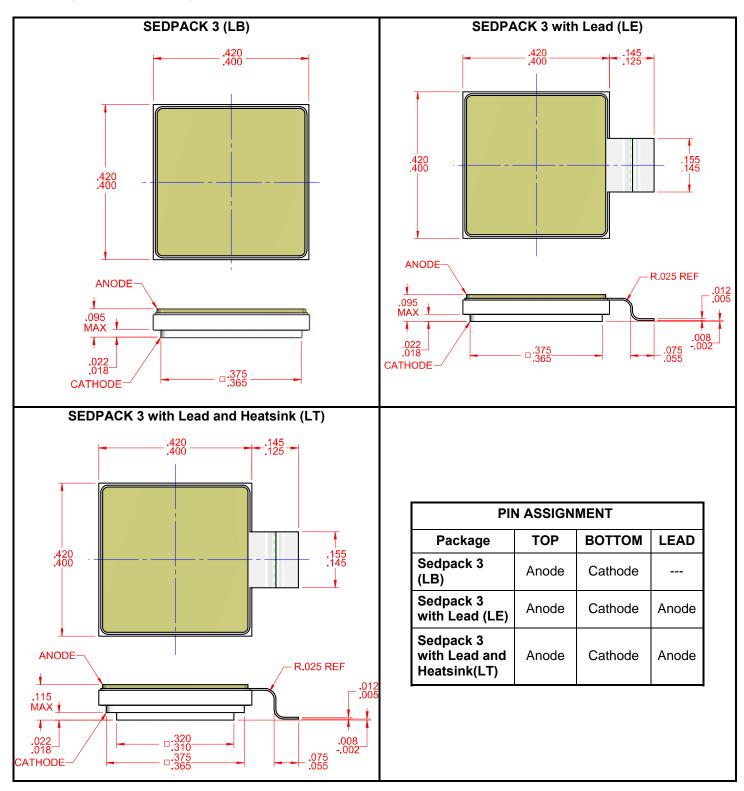


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