

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage
- Guard Ring Protection
- High Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

1 Amp Low VF Schottky Rectifier 15 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +100°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 15°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SL115B | SL115B | 15V | 10.5V | 15V |

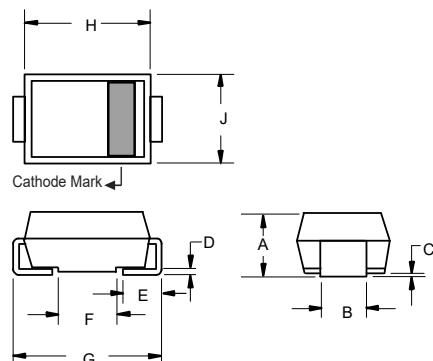
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|--|-------------|----------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 1.0A | $T_L=65^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 50A | 8.3ms, Half Sine |
| Instantaneous Forward Voltage | V_F | 0.25V(Typ.) 0.29V(Max.) | $I_F=1.0\text{A}; T_J=25^\circ\text{C}^*$ $I_F=1.0\text{A}; T_J=25^\circ\text{C}^*$ |
| Reverse Current at Rated DC Blocking Voltage | I_R | 0.5mA(Typ.) 10mA(Max.) | $T_J=25^\circ\text{C}$ $T_J=25^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 300 pF | Measured at 1.0MHz $V_R=4.0\text{V}$ |

Note:

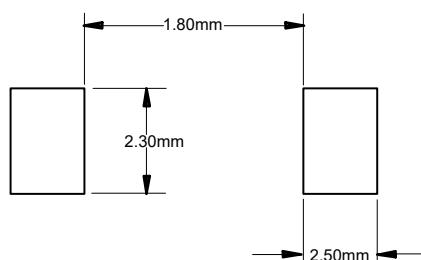
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

SMB (DO-214AA)



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|------|------|------|
| | INCHES | MIN | MAX | MM | |
| A | 0.079 | 0.103 | 2.00 | 2.62 | |
| B | 0.075 | 0.087 | 1.91 | 2.21 | |
| C | 0.002 | 0.008 | 0.05 | 0.20 | |
| D | 0.006 | 0.012 | 0.15 | 0.31 | |
| E | 0.030 | 0.060 | 0.76 | 1.52 | |
| F | 0.065 | 0.091 | 1.65 | 2.32 | |
| G | 0.200 | 0.220 | 5.08 | 5.59 | |
| H | 0.160 | 0.191 | 4.06 | 4.85 | |
| J | 0.130 | 0.155 | 3.30 | 3.94 | |

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

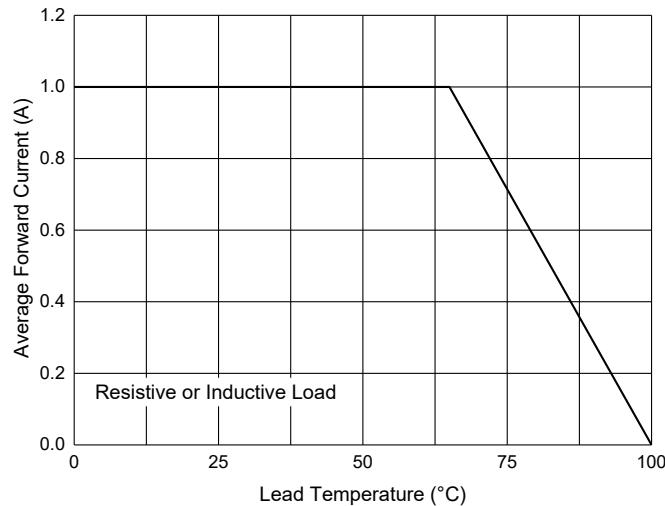


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

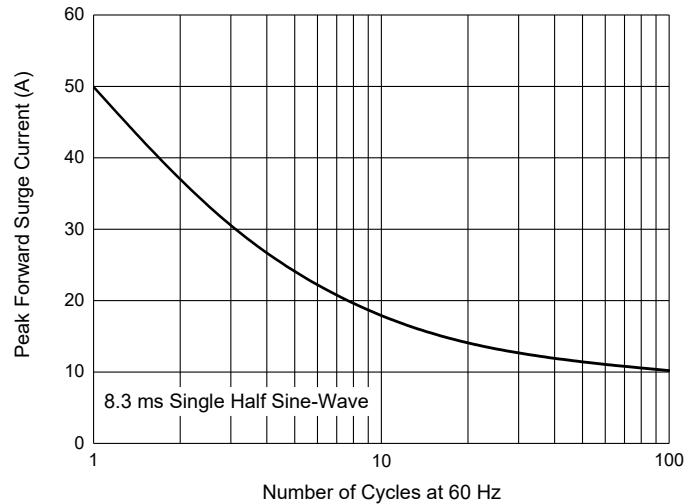


Fig. 3 - Typical Instantaneous Forward Characteristics

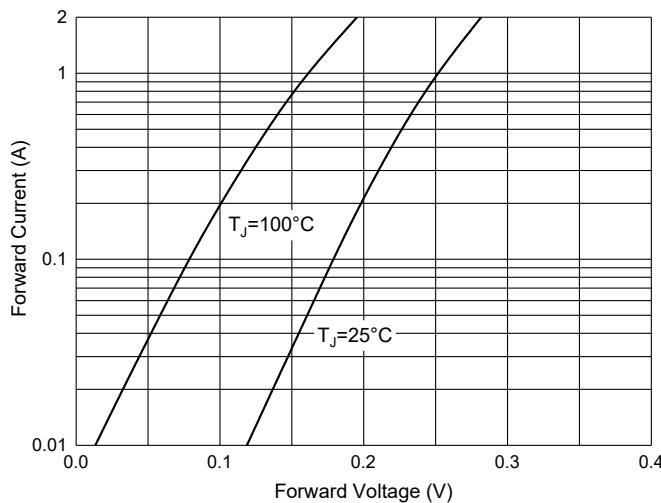
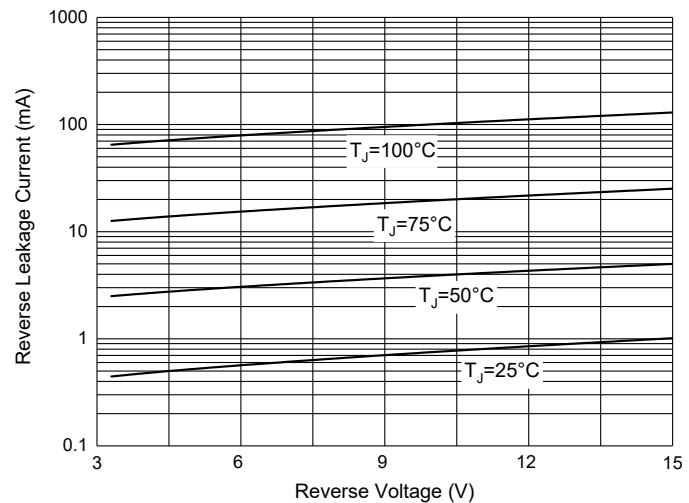


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|-----------|-----------------------|
| SL115B-TP | Tape&Reel: 3Kpcs/Reel |

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