

Features

- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Reverse Capacitance and Low Forward Voltage Drop
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient(Note 2)

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SD103AWSL | CA | 40V | 28V | 40V |
| SD103BWSL | CB | 30V | 21V | 30V |
| SD103CWSL | CC | 20V | 14V | 20V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

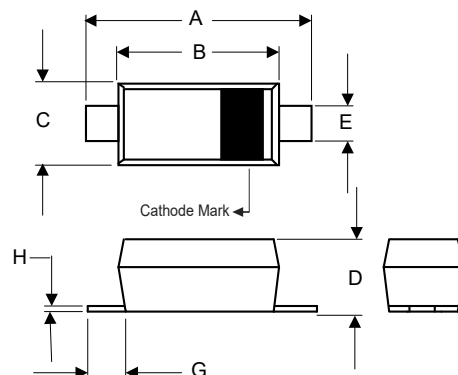
| | | | |
|---------------------------------------|-------------|----------------|--|
| Forward Continuous Current(Note2) | $I_{F(AV)}$ | 350mA | |
| Non-Peak Forward Surge Current | I_{FSM} | 2A | t= 8.3 ms Single Half Sine-Wave |
| Maximum Power Dissipation | P_d | 200mW | Note 3 |
| Maximum Instantaneous Forward Voltage | V_F | 0.37V 0.60V | $I_{FM}=20mA$ $I_{FM}=200mA$ |
| Maximum DC Reverse Current | I_R | 5.0μA | $V_R = 30V$ $V_R = 20V$ $V_R = 10V$ |
| Typical Reverse Recovery Time | T_{rr} | 10ns | $I_F = I_R = 200mA$ $I_{rr} = 0.1 \times I_R$ $R_L = 100\Omega$ |
| Maximum Junction Capacitance | C_J | 50pF | Measured at 1.0MHz, $V_R = 0.0V$ |

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. Part mounted on FR-4 board with recommended pad layout.
3. Valid provided that electrodes are kept at ambient temperature.

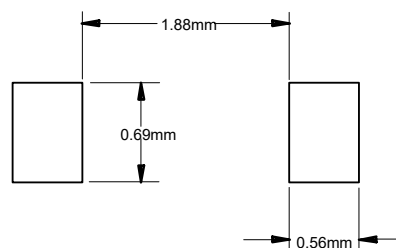
200mW Small Signal Schottky Diode 20 to 40 Volts

SOD-323FL



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.090 | 0.107 | 2.30 | 2.70 | |
| B | 0.063 | 0.078 | 1.60 | 1.95 | |
| C | 0.045 | 0.053 | 1.15 | 1.35 | |
| D | 0.024 | 0.035 | 0.60 | 0.90 | |
| E | 0.010 | 0.016 | 0.25 | 0.40 | |
| G | 0.016 | | 0.40 | | TYP. |
| H | 0.002 | 0.008 | 0.05 | 0.21 | |

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

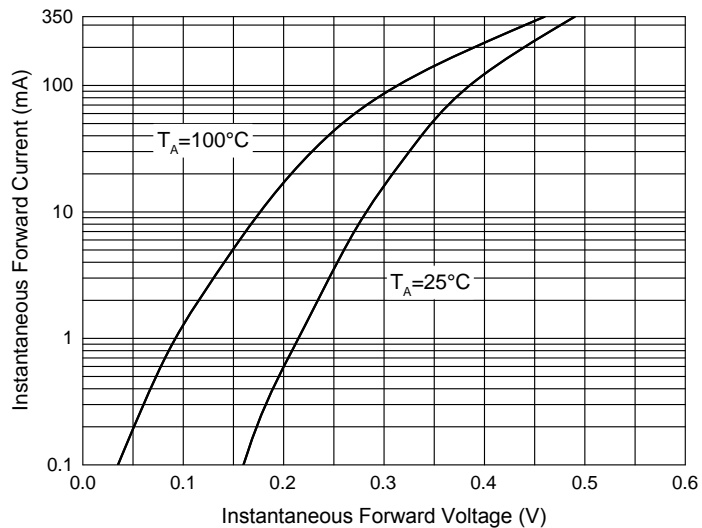


Fig. 2 - Typical Reverse Leakage Characteristics

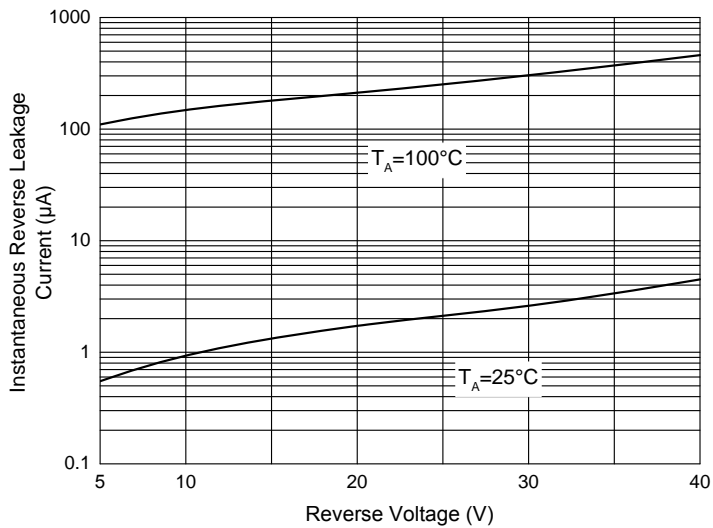


Fig. 3 - Power Derating Curve

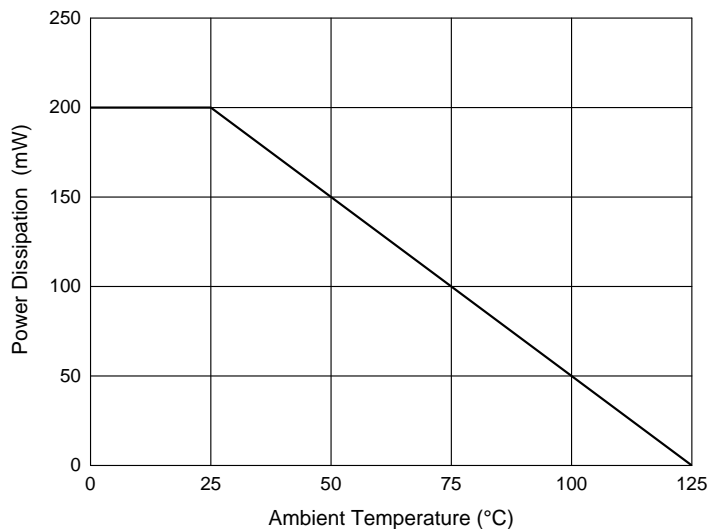
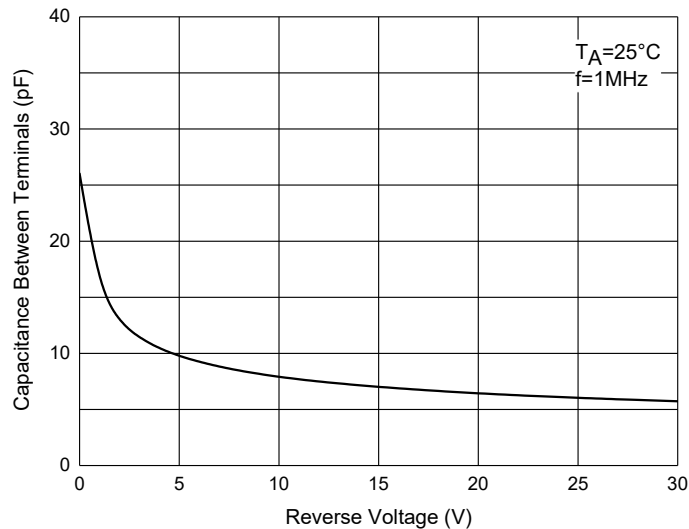


Fig. 4 - Capacitance Characteristics



Ordering Information

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

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