

### Features

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

### Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 28°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SMD110PL        | D10            | 100V                                   | 70V                 | 100V                        |
| SMD1150PL       | D15            | 150V                                   | 105V                | 150V                        |
| SMD1200PL       | D20            | 200V                                   | 140V                | 200V                        |

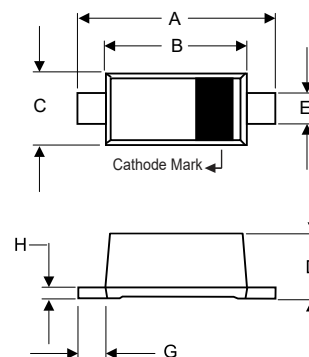
### Electrical Characteristics @ 25°C Unless Otherwise Specified

|   |             |                |  |
|---|-------------|----------------|--|
| Average Forward Current   | $I_{F(AV)}$ | 1.0A           | $T_L=100^\circ\text{C}$                            |
| Peak Forward Surge Current  | $I_{FSM}$   | 30A            | 8.3ms, Half Sine                                   |
| Maximum Instantaneous Forward Voltage<br>SMD110PL-1150PL<br>SMD1200PL | $V_F$       | 0.85V<br>0.95V | $I_{FM}=1.0A$ ;<br>$T_J=25^\circ\text{C}$ (Note:3) |
| Maximum DC Reverse Current at Rated DC Blocking Voltage               | $I_R$       | 0.01mA<br>1mA  | $T_J=25^\circ\text{C}$<br>$T_J=100^\circ\text{C}$  |
| Typical Junction Capacitance  | $C_J$       | 30pF           | Measured at 1.0MHz, $V_R=4.0V$                     |

- 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. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.  
 3. Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

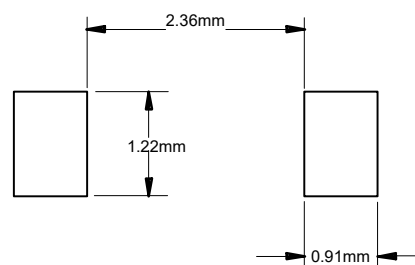
# 1 Amp Schottky Rectifier 100 to 200 Volts

## SOD-123FL



| DIM | DIMENSIONS |       |      |      | NOTE |
|-----|------------|-------|------|------|------|
|     | INCHES     |       | MM   |      |      |
|     | MIN        | MAX   | MIN  | MAX  |      |
| A   | 0.130      | 0.152 | 3.30 | 3.85 |      |
| B   | 0.100      | 0.122 | 2.55 | 3.10 |      |
| C   | 0.055      | 0.075 | 1.40 | 1.90 |      |
| D   | 0.035      | 0.053 | 0.90 | 1.35 |      |
| E   | 0.020      | 0.041 | 0.50 | 1.05 |      |
| G   | 0.010      | ----  | 0.25 | ---- |      |
| H   | ----       | 0.010 | ---- | 0.25 |      |

### Suggested Solder Pad Layout



## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

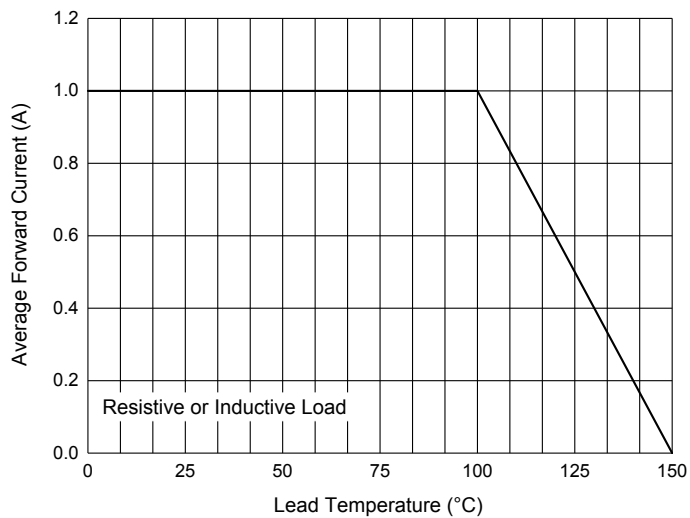


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

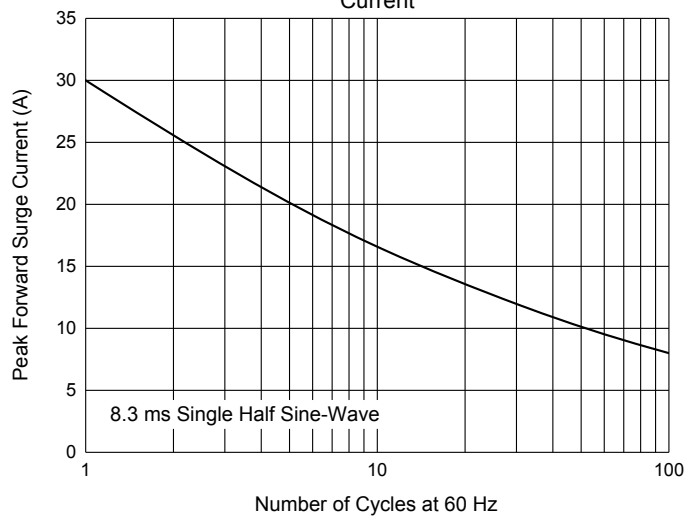


Fig. 3 - Typical Instantaneous Forward Characteristics

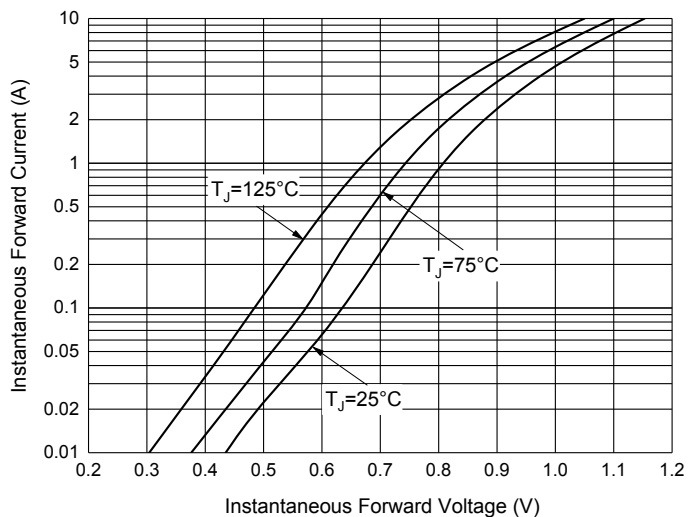
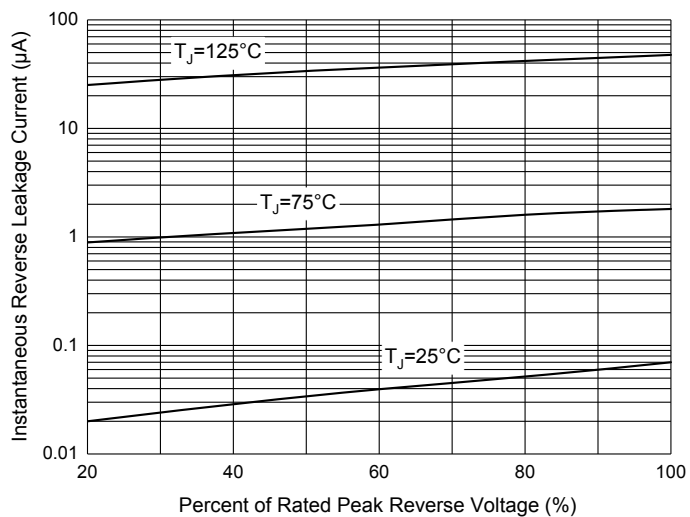


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device         | Packing                 |
|----------------|-------------------------|
| Part Number-TP | Tape&Reel: 2.5Kpcs/Reel |

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