

Features

- Halogen Free. "Green" Device (Note 1)
- High Surge Capability
- Low Forward Voltage
- Low Profile Package
- 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: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Typical Thermal Resistance(Note 3): 60°C/W Junction to Ambient
- Typical Thermal Resistance(Note 3): 30°C/W Junction to Case
- Typical Thermal Resistance(Note 3): 21°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SMD2150PL | M15 | 150V | 105V | 150V |
| SMD220PL | M20 | 200V | 140V | 200V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---------------------------------|-------------|------------|--|
| Average Forward Current | $I_{F(AV)}$ | 2.0A | $T_L=90^\circ\text{C}$ |
| Surge Forward Current | I_{FSM} | 50A | 8.3ms, Half Sine |
| Peak Repetitive Forward Current | I_{FRM} | 4.0A | Rated VR, Square Wave, 20 kHz, $T_C = 105^\circ\text{C}$ |
| Power Dissipation | P_D | 1.68W | |
| Forward Voltage | V_F | 0.9V(Max) | $I_{FM}=2.0A; T_J=25^\circ\text{C}$ |
| Maximum DC Reverse Current | I_R | 0.01mA | $T_J=25^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 210pF(Typ) | $f=1.0\text{MHz}, VR=4V$ |

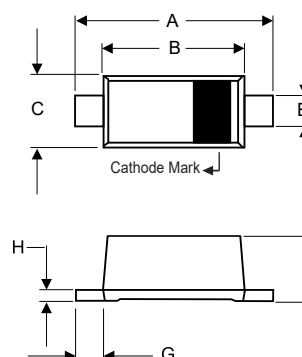
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a.

3. Thermal Resistance: PC Board Mounted on 0.2*0.2"(5*5mm) copper pad area.

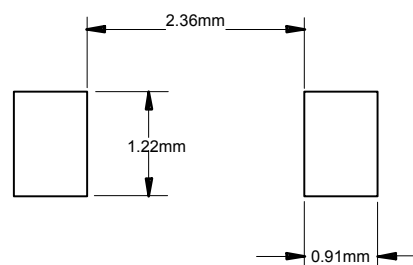
Schottky Barrier Diodes 150 to 200 Volts

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

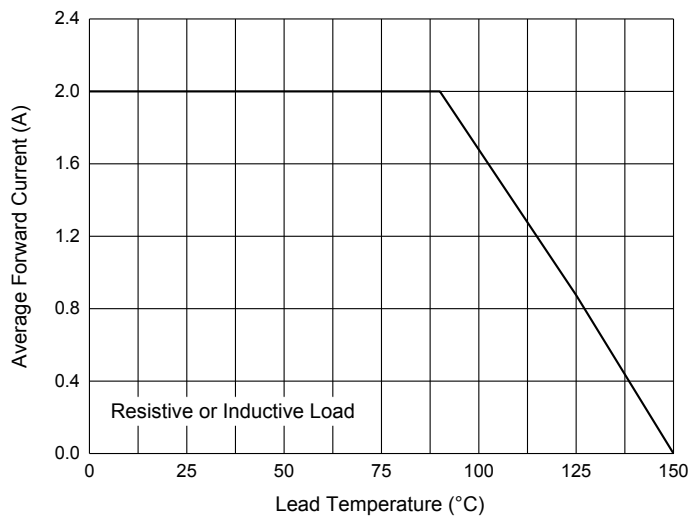


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

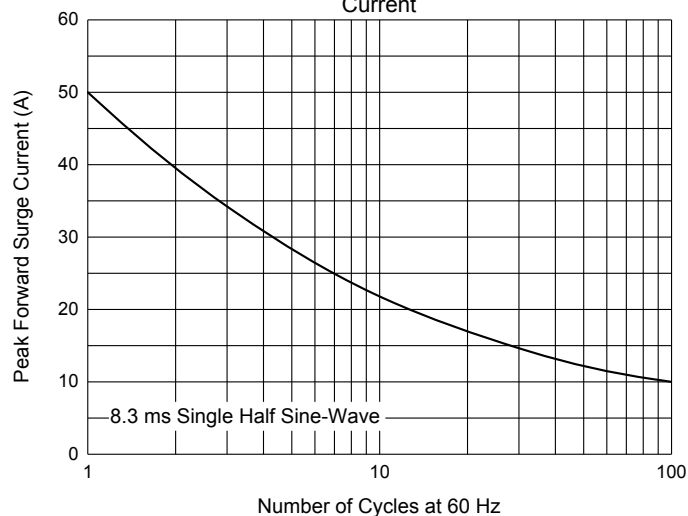


Fig. 3 - Typical Instantaneous Forward Characteristics

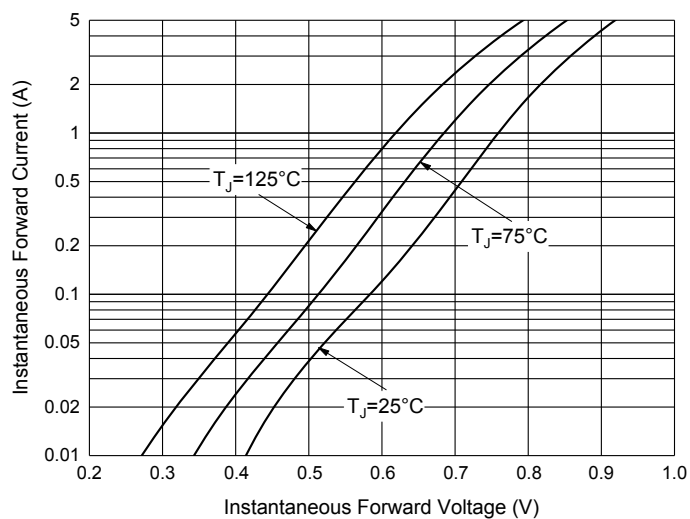
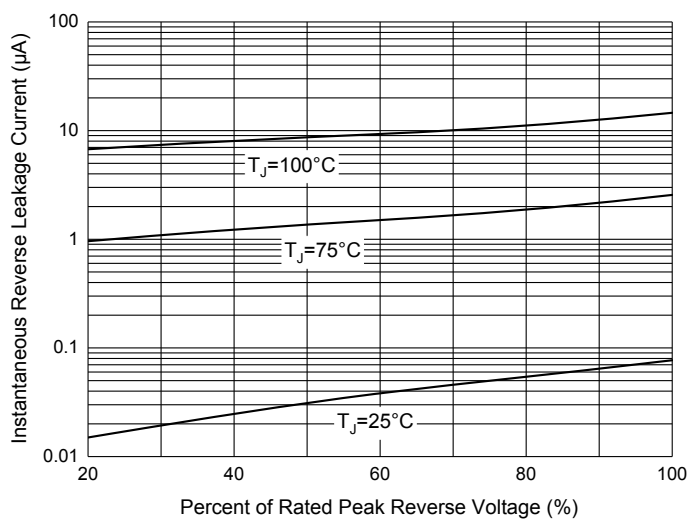


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

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

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