

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Glass Passivated Chip Junction
- Low Profile Package
- For Surface Mount Applications
- High Forward Surge Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 3): 15°C/W Junction to Case
- Typical Thermal Resistance(Note 3): 20°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 60°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| S2JBFL | S2J | 600V | 420V | 600V |
| S2MBFL | S2M | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

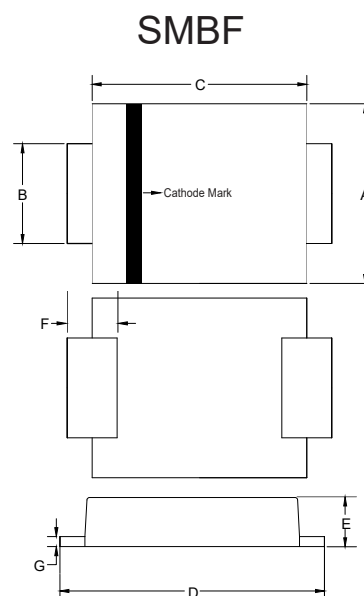
| | | | |
|---|-------------|--------------------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 2.0A | $T_L=105^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 50A 100A | 8.3ms, Half-sine Wave 1ms, Square Wave |
| Maximum Instantaneous Forward Voltage | V_F | 1.1V | $I_F=2.0A$; $T_J=25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 100 μA | $T_J=25^\circ\text{C}$; $T_J=125^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 12pF | Measured at 1.0MHz $V_R=4.0V$ |

*Pulse Test: Pulse Width 300 μsec , Duty Cycle 2%

Note:

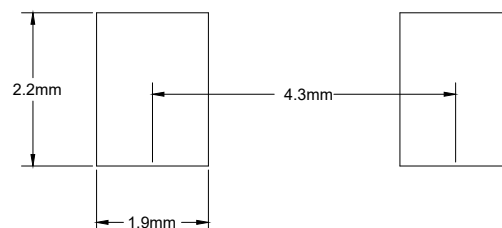
1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.
2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
3. Mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.

2.0 Amp Glass Passivated Silicon Rectifier 600 to 1000 Volts



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.134 | 0.150 | 3.40 | 3.80 | |
| B | 0.075 | 0.083 | 1.90 | 2.10 | |
| C | 0.163 | 0.175 | 4.15 | 4.45 | |
| D | 0.201 | 0.220 | 5.10 | 5.60 | |
| E | 0.041 | 0.061 | 1.05 | 1.55 | |
| F | 0.028 | 0.053 | 0.70 | 1.35 | |
| G | 0.006 | 0.010 | 0.15 | 0.25 | |

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

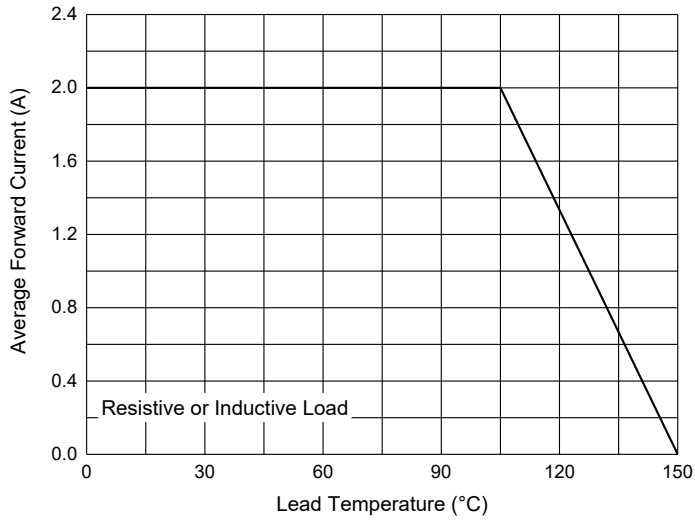


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

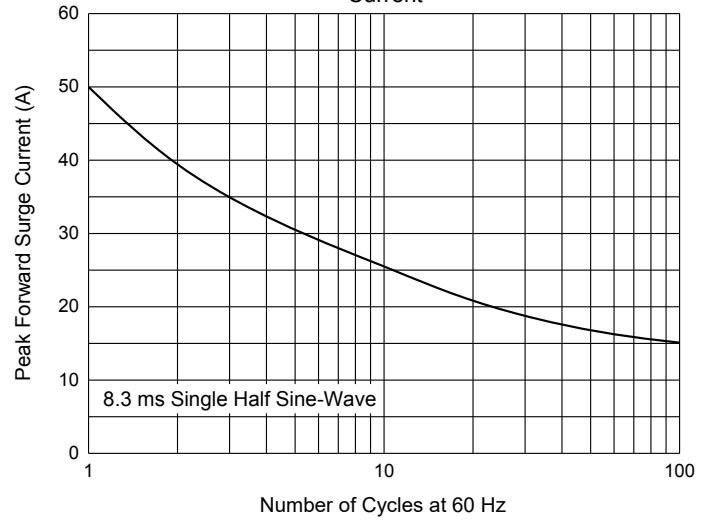


Fig. 3 - Typical Instantaneous Forward Characteristics

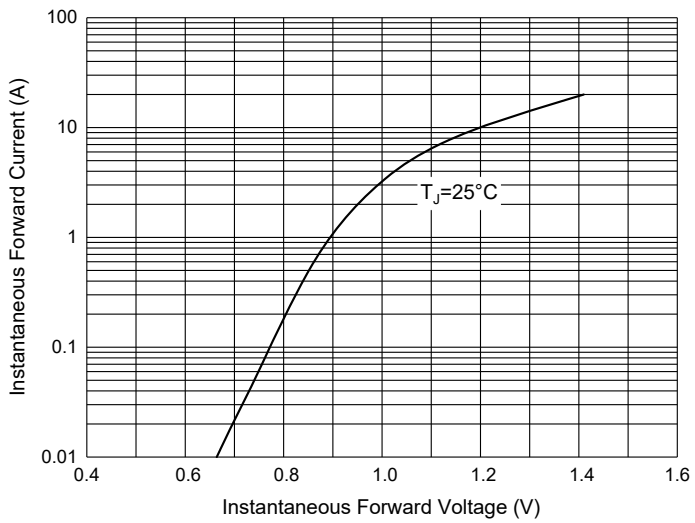
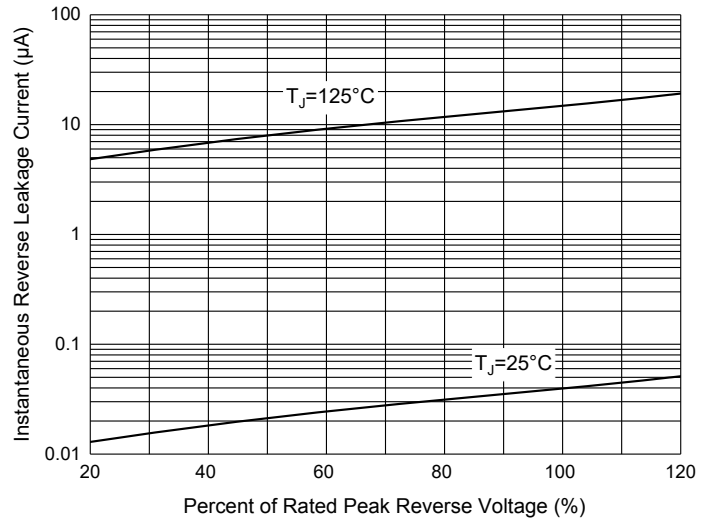


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

| Device | Packing |
|---------------------|-----------------------|
| S2JBFL-TP~S2MBFL-TP | Tape&Reel: 5Kpcs/Reel |

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