

Features

- Low Profile Package
- Ideal For Automated Placement
- Glass Passivated Chip Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C To +150°C
- Storage Temperature Range: -55°C To +150°C
- Typical Thermal Resistance: 70°C/W Junction To Ambient
- Typical Thermal Resistance: 25°C/W Junction To Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| FS1AFL | FS1A | 50V | 35V | 50V |
| FS1BFL | FS1B | 100V | 70V | 100V |
| FS1DFL | FS1D | 200V | 140V | 200V |
| FS1GFL | FS1G | 400V | 280V | 400V |
| FS1JFL | FS1J | 600V | 420V | 600V |
| FS1KFL | FS1K | 800V | 560V | 800V |
| FS1MFL | FS1M | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

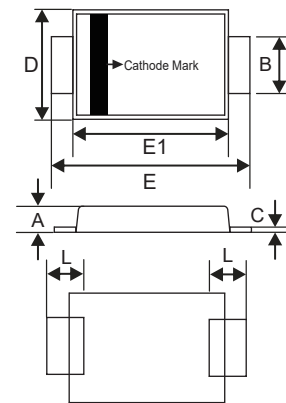
| | | | |
|---|-------------|--------------------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 1.0A | $T_L=110^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 30A | 8.3ms, Half Sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.3V | $I_{FM}=1.0A;$ $T_A=25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5 μA 100 μA | $T_A=25^\circ\text{C};$ $T_A=125^\circ\text{C}$ |
| Maximum Reverse Recovery Time | t_{rr} | 150ns 250ns 500ns | $I_F=0.5A; I_R=1.0A,$ $I_{RR}=0.25A$ |
| FS1AFL-FS1GFL FS1JFL FS1KFL-FS1MFL | | | |

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.

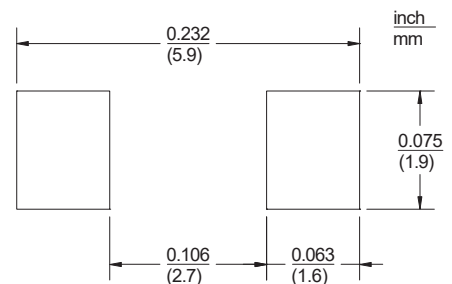
**1 Amp Fast Recovery Rectifier
50 to 1000 Volts**

DO-221AC(SMA-FL)



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|------|------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.035 | 0.049 | 0.90 | 1.25 | |
| B | 0.049 | 0.065 | 1.25 | 1.65 | |
| C | 0.004 | 0.016 | 0.10 | 0.40 | |
| D | 0.089 | 0.116 | 2.25 | 2.95 | |
| E | 0.173 | 0.220 | 4.40 | 5.60 | |
| E1 | 0.126 | 0.181 | 3.20 | 4.60 | |
| L | 0.020 | 0.059 | 0.50 | 1.50 | |

SUGGESTED SOLDER PAD LAYOUT



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

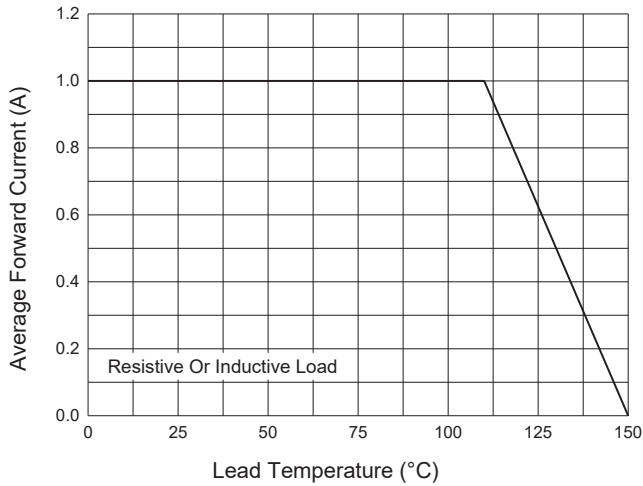


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

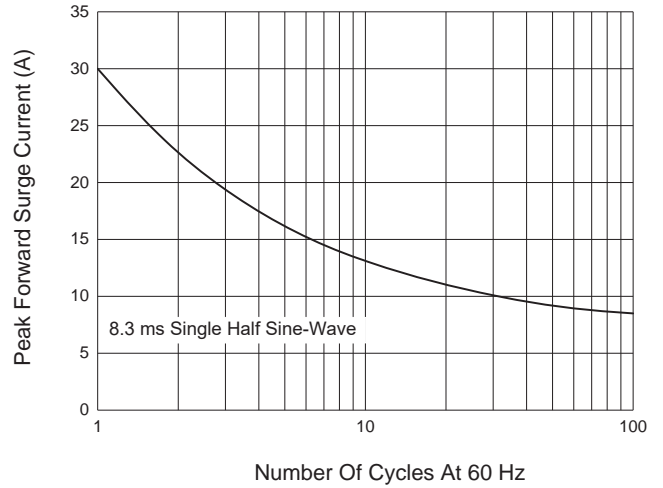


Fig. 3 - Typical Instantaneous Forward Characteristics

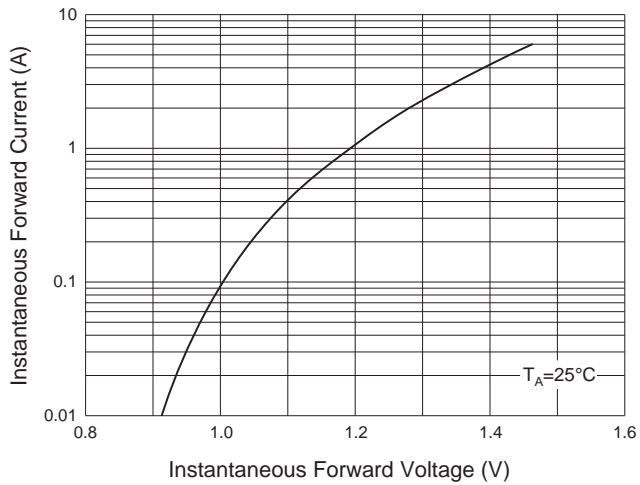
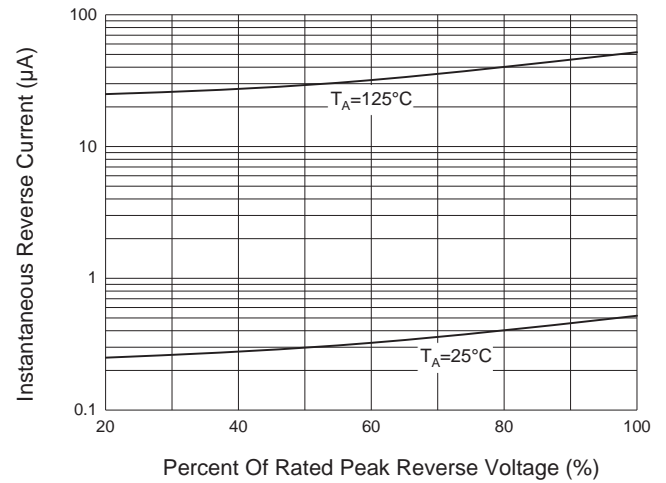


Fig. 4 - Typical Reverse Characteristics



Ordering Information

| Device | Packing |
|----------------|------------------------|
| Part Number-TP | Tape&Reel: 10Kpcs/Reel |

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