

Features

- Easy Pick And Place
- Glass Passivated Chip Junction
- Fast Recovery Times For High Efficiency
- 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 Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 15°C/W Junction to Lead

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|-------------------------|--|
| Average Forward Current | $I_{F(AV)}$ | 1.0A | $T_L=125^\circ\text{C};$ |
| Peak Forward Surge Current | I_{FSM} | 30A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.30V | $I_{FM}=1.0A;$ $T_J=25^\circ\text{C}^*$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 5.0µA 50µA | $T_J=25^\circ\text{C};$ $T_J=125^\circ\text{C}$ |
| Maximum Reverse Recovery Time | t_{rr} | 150ns 250ns 500ns | $I_F=0.5A; I_R=1.0A;$ $I_{rr}=0.25A$ |
| | | | FS1A-L~FS1G-L FS1J-L FS1K-L~FS1M-L |
| Typical Junction Capacitance | C_J | 15pF | Measured at 1.0MHz $V_R=4.0V$ |

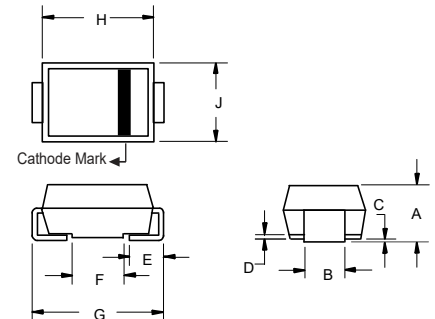
*Pulse Test: Pulse Width 200 µsec, Duty Cycle 2%

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 Exemptions Applied, See EU Directive Annex 7a.

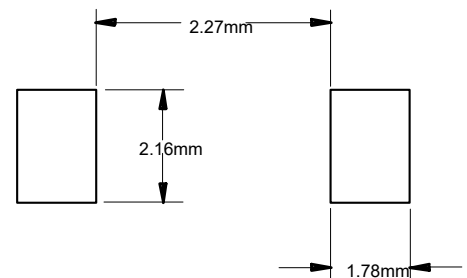
**1 Amp
Fast Recovery
Rectifier
50 to 1000 Volts**

**DO-214AC
(SMA) (LEAD FRAME)**



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|-------|-------|-------|------|
| | INCHES | | MM | | |
| | MIN | MAX | MIN | MAX | |
| A | 0.075 | 0.096 | 1.90 | 2.44 | |
| B | 0.050 | 0.064 | 1.27 | 1.63 | |
| C | 0.002 | 0.008 | 0.051 | 0.203 | |
| D | --- | 0.020 | --- | 0.51 | |
| E | 0.030 | 0.060 | 0.76 | 1.52 | |
| F | 0.065 | 0.091 | 1.65 | 2.32 | |
| G | 0.189 | 0.220 | 4.80 | 5.59 | |
| H | 0.157 | 0.187 | 4.00 | 4.75 | |
| J | 0.090 | 0.115 | 2.25 | 2.92 | |

SUGGESTED SOLDER PAD LAYOUT



Curve Characteristics

Fig. 1 - Forward Current Derating Curve

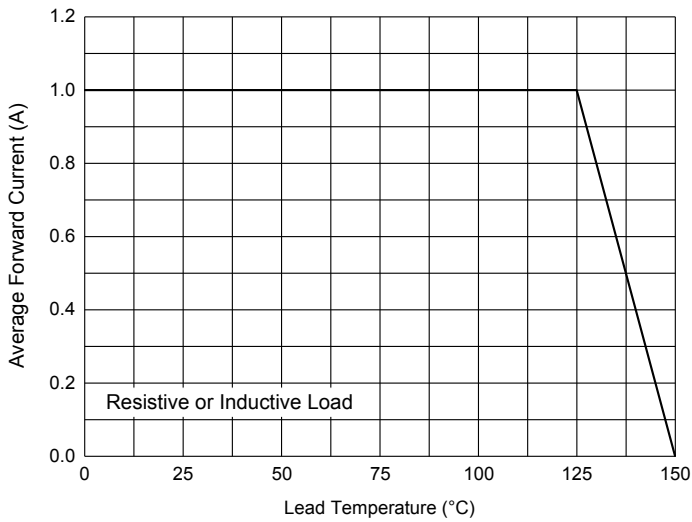


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

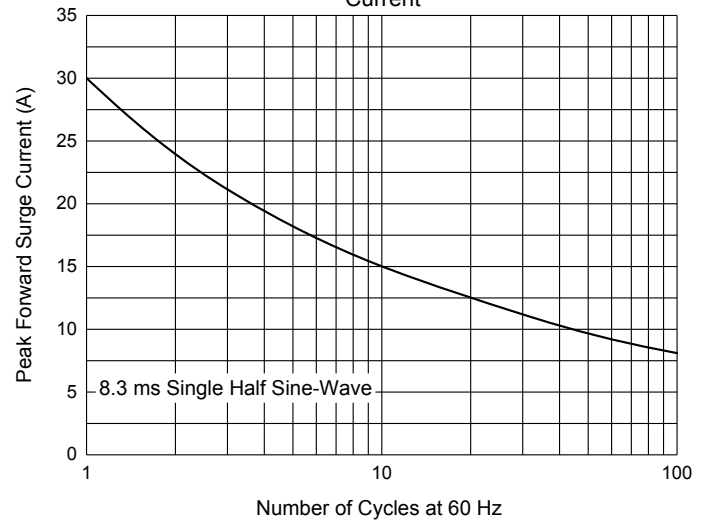


Fig. 3 - Typical Instantaneous Forward Characteristics

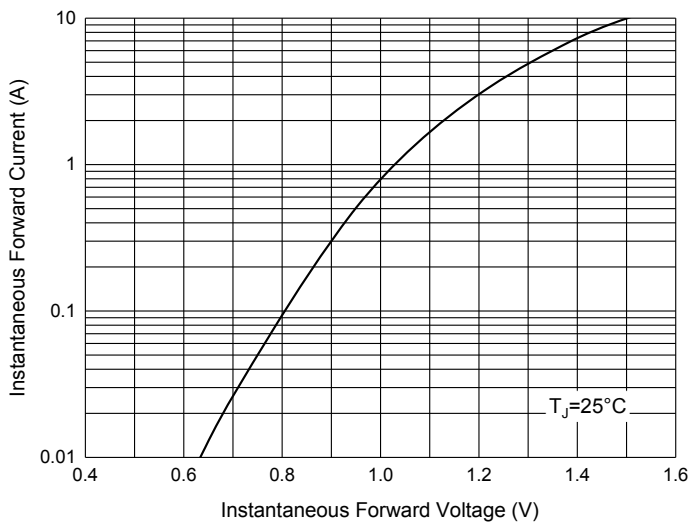
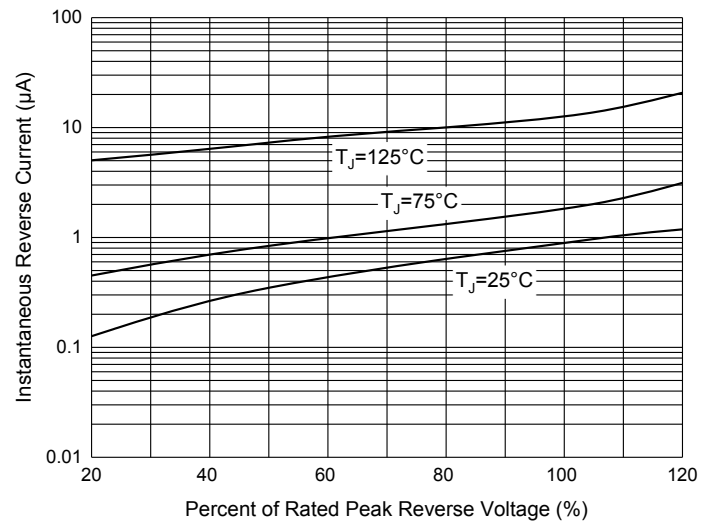


Fig. 4 - Typical Reverse Characteristics



Ordering Information

| Device | Packing |
|-------------------|-----------------------|
| FS1A-LTP~FS1M-LTP | Tape&Reel: 5Kpcs/Reel |

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