

Features

- Halogen Free. "Green" Device (Note 1)
- · For Surface Mounted Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 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
- Typical Thermal Resistance: 65°C/W Junction to Ambient
- Typical Thermal Resistance: 20°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|---------------------------|-----------------------------------|
| FS2AFL | FS2A | 50V | 35V | 50V |
| FS2BFL | FS2B | 100V | 70V | 100V |
| FS2DFL | FS2D | 200V | 140V | 200V |
| FS2GFL | FS2G | 400V | 280V | 400V |
| FS2JFL | FS2J | 600V | 420V | 600V |
| FS2KFL | FS2K | 800V | 560V | 800V |
| FS2MFL | FS2M | 1000V | 700V | 1000V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

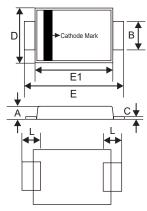
| Average Forward Current | I _{F(AV)} | 2.0A | T _L = 100°C |
|--|--------------------|-------------------------|--|
| Peak Forward Surge Current | I _{FSM} | 50A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage | V _F | 1.30V | I _{FM} =2.0A; T _J =25°C |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 5.0µA | T _J =25°C |
| Maximum Reverse Recovery Time FS2AFL~FS2GFL FS2JFL FS2KFL~FS2MFL | t _{rr} | 150ns 250ns 500ns | I _F =0.5A; I _R =1.0A; Irr=0.25A |
| Typical Junction Capacitance | Сл | 50pF | 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 Exemptions Applied, See EU Directive Annex 7a.

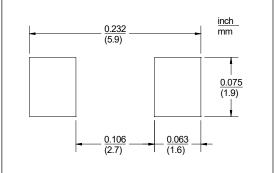
2.0 Amp Fast Recovery Rectifier 50 to 1000 Volts

DO-221AC(SMA-FL)



| DIMENSIONS | | | | | | | |
|------------|--------|-------|------|------|------|--|--|
| DIM | INCHES | | MM | | NOTE | | |
| | MIN | MAX | MIN | MAX | NOTE | | |
| Α | 0.035 | 0.049 | 0.90 | 1.25 | | | |
| В | 0.049 | 0.065 | 1.25 | 1.65 | | | |
| С | 0.004 | 0.016 | 0.10 | 0.40 | | | |
| D | 0.089 | 0.116 | 2.25 | 2.95 | | | |
| Е | 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

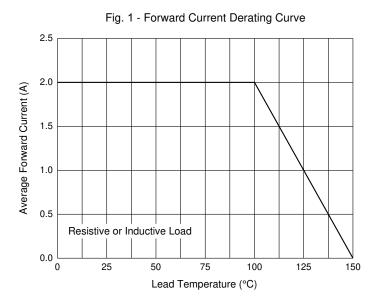
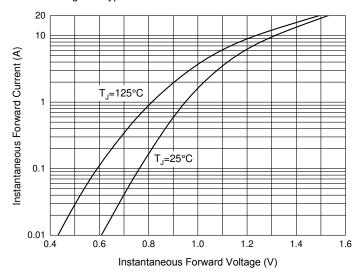


Fig. 3 - Typical Instantaneous Forward Characteristics



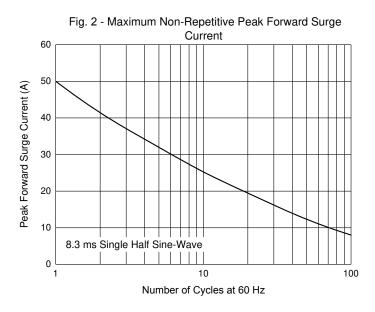
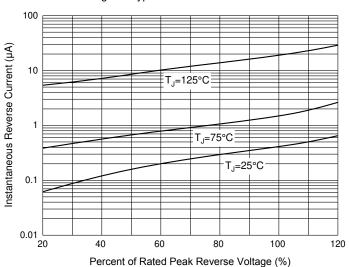


Fig. 4 - Typical Reverse Characteristics





Ordering Information

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

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