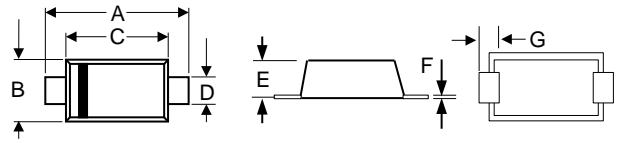


Features

- * For surface mounted application
- * Extremely low thermal resistance
- * Easy pick and place
- * High temp soldering: 260°C for 10 seconds at terminals
- * Fast reverse recovery time



RoHS
COMPLIANT



| DIM. | SMAF | | | |
|------|--------|-------|------|------|
| | INCHES | | MM | |
| | MIN | MAX | MIN | MAX |
| A | 0.173 | 0.193 | 4.40 | 4.90 |
| B | 0.094 | 0.106 | 2.40 | 2.70 |
| C | 0.130 | 0.146 | 3.30 | 3.70 |
| D | 0.051 | 0.063 | 1.30 | 1.60 |
| E | 0.035 | 0.043 | 0.90 | 1.10 |
| F | 0.005 | 0.008 | 0.12 | 0.20 |
| G | 0.031 | 0.047 | 0.80 | 1.20 |

Mechanical Data

- * Case: SMAF Molded plastic
- * Terminals: Solderable per MIL-STD-750, Method 2026
- * Polarity: Indicated by cathode band

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

| Type Number | Symbols | FS2AA F | FS2BA F | FS2DA F | FS2GA F | FS2JA F | FS2KA F | FS2MA F | Unit |
|---|--------------------|-------------|------------|------------|------------|------------|------------|------------|------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum D.C Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current | I _{F(AV)} | 2 | | | | | | | A |
| Peak Forward Surge Current, 8.3ms single half sine-wave | I _{FSM} | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at 2.0A | V _F | 1.3 | | | | | | | V |
| Maximum D.C Reverse Current @ T _J =25°C | I _R | 5 | | | | | | | μA |
| at Rated D.C Blocking Voltage @ T _J =125°C | | 100 | | | | | | | |
| Maximum Reverse Recovery Time (Note1) | T _{rr} | 150 | | | 250 | 500 | | nS | |
| Typical Junction Capacitance (Note2) | C _J | 22 | | | | | | | pF |
| Typical Thermal Resistance (Note3) | R _{θJA} | 65 | | | | | | | °C/W |
| | R _{θJC} | 20 | | | | | | | |
| Operating Junction Temperature Range | T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

Note 1: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 2: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Note 3: P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Ratings and Characteristic Curves

Fig.1 Forward Current Derating Curve

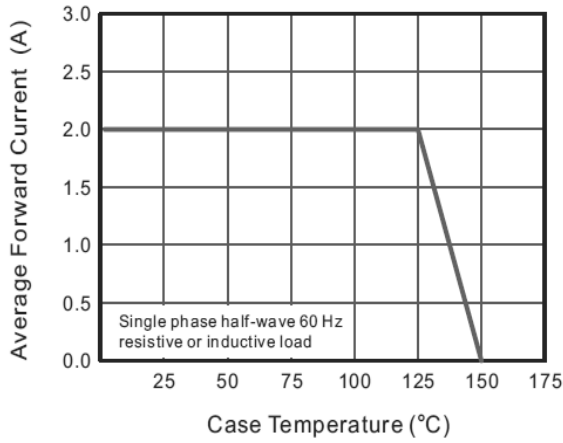


Fig.2 Typical Reverse Characteristics

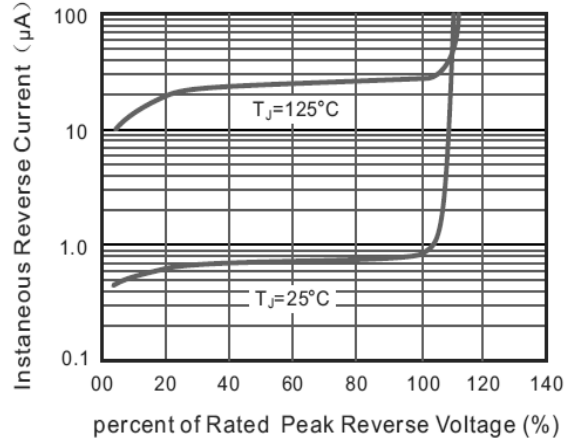


Fig.3 Typical Instantaneous Forward Characteristics

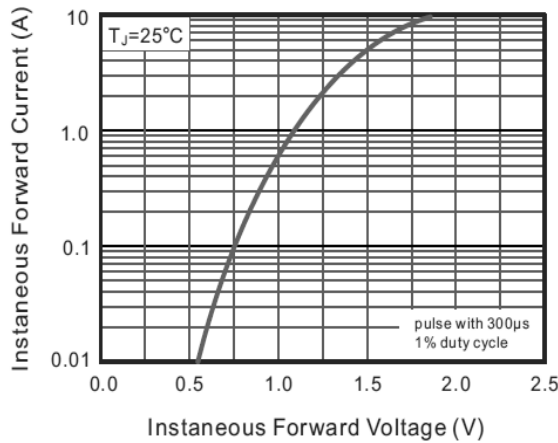


Fig.4 Typical Junction Capacitance

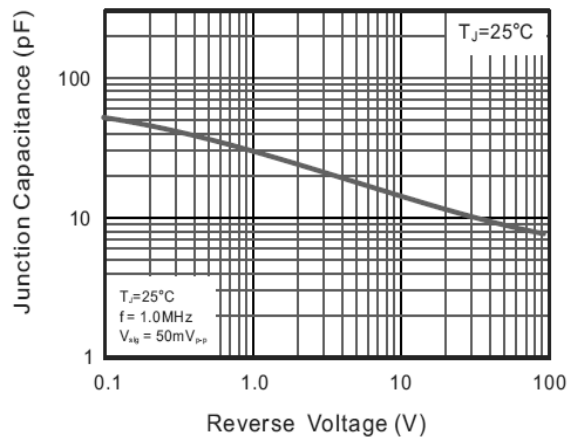
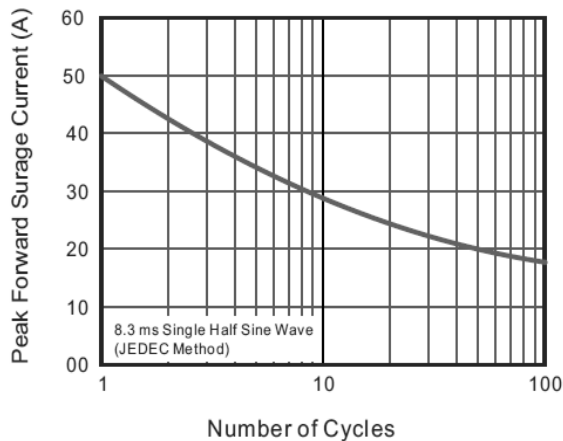


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





FS2AAF THRU FS2MAF

Surface Mount Glass Passivated Fast Recovery Rectifiers

Ordering Information

| Part No. | Package | Packing Code | Packing |
|--------------------|---------|--------------|--------------|
| FS2AAF THRU FS2MAF | SMAF | R30 | 3000pcs/Reel |

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