

FS2AA-FS2MA

1.5AMP.Surface Mount Fast Recovery Rectifiers

SMA/DO-214AC



Features

- ∻ For surface mounted application
- ∻ Glass passivated junction chip
- ∻ Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters ∻ Laboratory Classification 94V-0
- ∻ Fast switching for high efficiency
- High temperature soldering: ∻ 260 °C / 10 seconds at terminals

Mechanical Data

- ∻ Cases: Molded plastic
- Terminals: Pure tin plated, Lead free. ∻
- Polarity: Indicated by cathode band ∻
- ∻ Packing: 12mm tape
- ♦ Weight: 0.064 gram

Dimensions in inches and (millimeters)

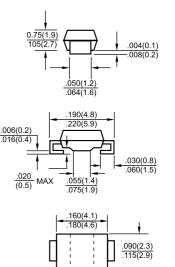
Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

| Type Number | Symbol | FS 2AA | FS 2BA | FS 2DA | FS 2GA | FS 2JA | FS 2KA | FS 2MA | Units |
|---|--------------------------|----------------------|----------------------|---------------------|-----------|-----------|-----------|-----------|----------|
| Maximum Recurrent 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 DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current See Fig. 1 @T∟=100°C | I _(AV) | 1.5 | | | | | | | А |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | 50 | | | | | | | А |
| Maximum Instantaneous Forward Voltage @ 1.5A | V _F | 1.3 | | | | | | V | |
| Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C | I _R | 5 200 | | | | | | | uA uA |
| Maximum Reverse Recovery Time (Note 1) | Trr | | 150 250 500 | | | | 00 | nS | |
| Typical Junction Capacitance (Note 2) | Cj | 50 | | | | | | pF | |
| Typical Thermal Resistance (Note 3) | R _{θJA} | 55 | | | | | | | °C /W |
| | R _{θJL} | 18 | | | | | | | |
| Operating Temperature Range | TJ | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |
| Notes: 1. Reverse Recovery Test Conditi | ons: I _F =0.5 | 5A, I _R = | 1.0A, I _R | _R =0.25/ | Ą | | | | • |

2. Measured at 1 MHz and Applied V_R=4.0 Volts

3. Thermal Resistance from Junction to Ambient and Junction to Lead Mounted on P.C.B. with 0.2"x0.2" (5.0 x 5.0 mm) Copper Pad Areas.





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RATINGS AND CHARACTERISTIC CURVES (FS2AA THRU FS2MA)

