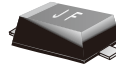
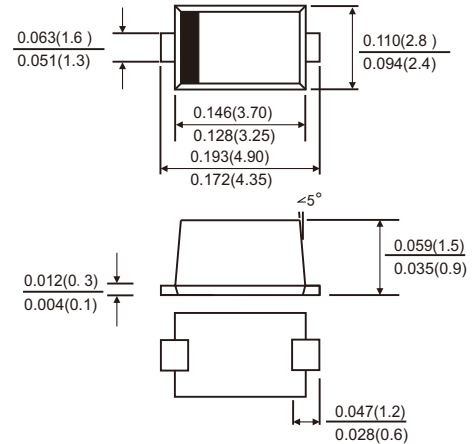


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- For surface mount applications
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- Low profile package
- Built-in strain relief ,ideal for automated placement
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU



SMAF



MECHANICAL DATA

- Case: SMAF molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

| Parameters | Symbols | SS 52S | SS 53S | SS 54S | SS 56S | SS 510S | SS 515S | SS 520S | Units | |
|---|-----------------------|-------------|--------|--------|--------|---------|---------|---------|-------|------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 20 | 30 | 40 | 60 | 100 | 150 | 200 | Volts | |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 28 | 42 | 71 | 105 | 140 | Volts | |
| Maximum DC blocking voltage | V _{DC} | 20 | 30 | 40 | 60 | 100 | 150 | 200 | Volts | |
| Maximum average forward rectified current (see fig.1) | I(AV) | 5.0 | | | | | | | Amps | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated T _J) | I _{FSM} | 125.0 | | | | | | | Amps | |
| Maximum instantaneous forward voltage at 5.0 A(Note 1) | V _F | 0.55 | | 0.70 | 0.85 | 0.90 | 0.95 | | Volts | |
| Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) | T _A =25°C | 100 | | | | 20 | | | | μA |
| | T _A =100°C | 10 | | | | - | | | | mA |
| | T _A =125°C | - | | | | 5 | | | | mA |
| Typical junction capacitance(Note 3) | C _J | 250 | | | | | 120 | | | pF |
| Typical thermal resistance (Note 2) | R _{θJA} | | | | | 50.0 | | | | °C/W |
| | R _{θJL} | | | | | 28.0 | | | | |
| Operating junction temperature range | T _J | -55 to +150 | | | | | | | °C | |
| Storage temperature range | T _{STG} | -55 to +150 | | | | | | | °C | |

Notes: 1. Pulse test: 300 μs pulse width,1% duty cycle

2. P.C.B. mounted 0.2X0.2"(5X5mm) copper pad areas

3. Measured at 1MHz and reverse voltage of 4.0 volts

RATINGS AND CHARACTERISTIC CURVES SS52S THRU SS520S

FIG.1-FORWARD CURRENT DERATING CURVE

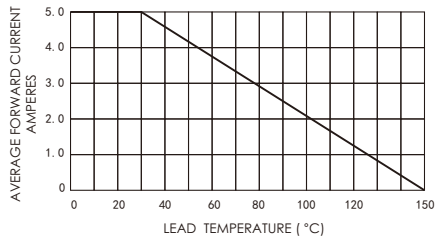


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

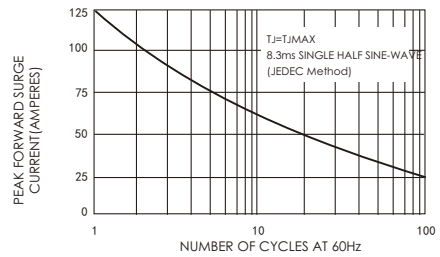


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

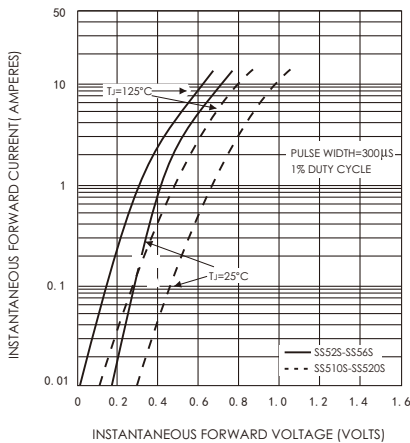


FIG.4-TYPICAL REVERSE CHARACTERISTICS

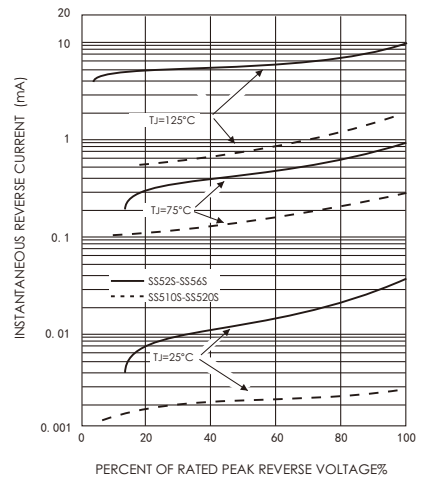
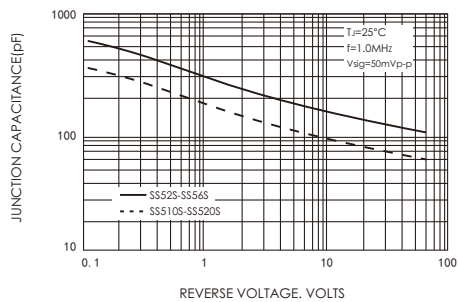


FIG.5-TYPICAL JUNCTION CAPACITANCE



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