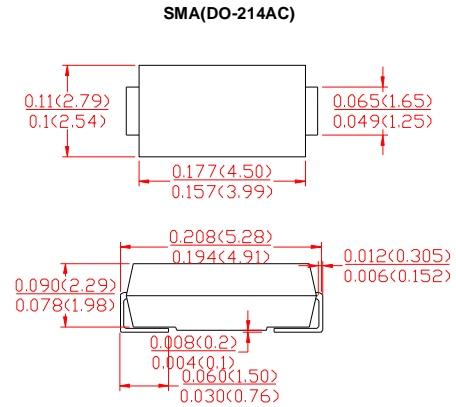


**FEATURES**

- | Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- | Metal silicon junction, majority carrier conduction
- | For surface mount applications
- | Guard ring for over voltage protection
- | Low power loss, high efficiency
- | High current capability, Low forward voltage drop
- | High surge capability
- | For use in low voltage, high frequency inverters, Free wheeling, and polarity protection applications
- | High temperature soldering guaranteed:  
250°C/10 seconds at terminals

**MECHANICAL DATA**

- | Case: JEDED SMA (DO-214AC) molded plastic body
- | Terminals: Solder Plated, solderable per MIL-STD-750 Method 2026
- | Polarity: Color band denotes cathode end
- | Weight: 0.002ounce, 0.064 gram


**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

|   | SYMBOLS                 | SS12        | SS13 | SS14 | SS15 | SS16        | SS18 | SS19 | SS110 | UNITS |
|---|-------------------------|-------------|------|------|------|-------------|------|------|-------|-------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$               | 20          | 30   | 40   | 50   | 60          | 80   | 90   | 100   | Volts |
| Maximum RMS Voltage   | $V_{RMS}$               | 14          | 21   | 28   | 35   | 42          | 56   | 63   | 70    | Volts |
| Maximum DC Blocking Voltage   | $V_{DC}$                | 20          | 30   | 40   | 50   | 60          | 80   | 90   | 100   | Volts |
| Maximum Average Forward Rectified Current<br>0.375"(9.5mm) lead length (see Fig.1)                  | $I_{AV}$                | 1.0         |      |      |      |             |      |      |       | Amps  |
| Peak Forward Surge Current 8.3ms single half sine-wave<br>superimposed on rated load (JEDEC Method) | $I_{FSM}$               | 30.0        |      |      |      |             |      |      |       | Amps  |
| Maximum Instantaneous Forward Voltage<br>of 1.0A (Note 1)   | $V_F$                   | 0.55        |      | 0.75 |      | 0.85        |      |      | Volts |       |
| Maximum instantaneous Reverse Current<br>at rated DC blocking voltage (Note 1)                      | $T_A=25^\circ\text{C}$  | 0.5         |      |      |      |             |      |      |       | mA    |
|   | $T_A=125^\circ\text{C}$ | 10          |      |      |      |             |      |      |       |       |
| Typical thermal capacitance (Note 2)  | $R_{QJL}$<br>$R_{QA}$   | 28.0        |      |      |      | 88.0        |      |      |       | °C/W  |
| Operating and Storage Temperature Range   | $T_J$                   | -65 to +125 |      |      |      | -65 to +150 |      |      |       | °C    |
| Storage temperature range   | $T_{STG}$               | -65 to +150 |      |      |      |             |      |      |       |       |

**NOTES:**

- 1.Pulse test: 300µs pulse width, 1% duty cycle.
- 2.P.C.B. Mounted with 0.2\*0.2"(5.0\*5.0mm) copper pads.

# RATING AND CHARACTERISTIC CURVES SS12 thru SS110

FIG.1-FORWARD CURRENT DERATING CURVE

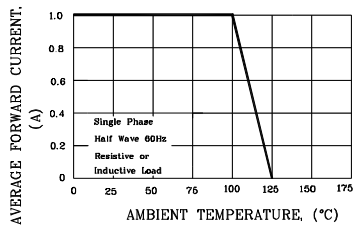


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

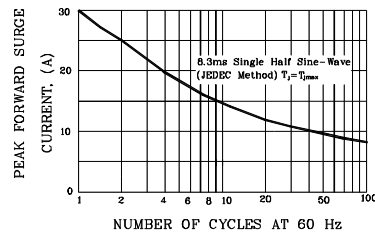


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

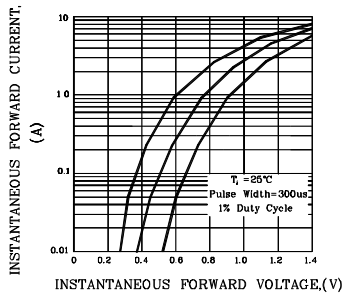


FIG.4-TYPICAL JUNCTION CAPACITANCE

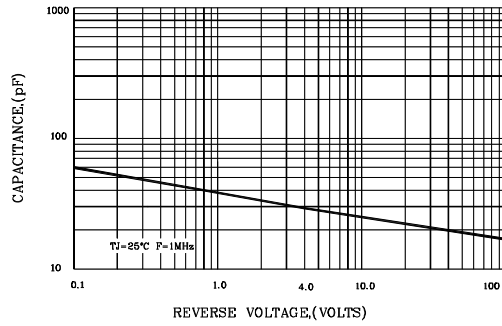
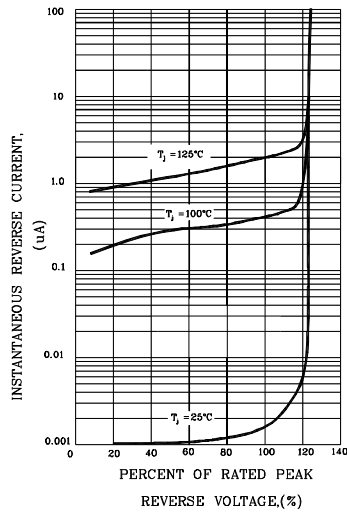


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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