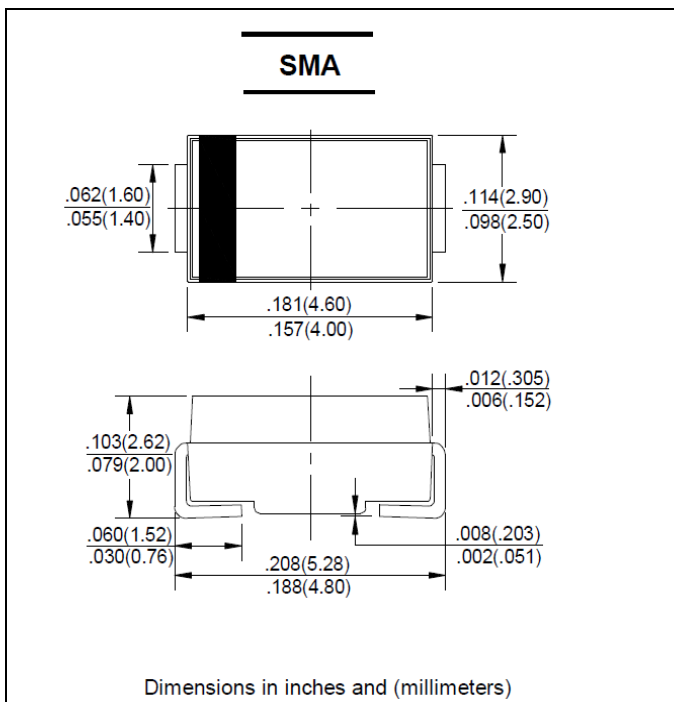


FEATURES

- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:
250°C/10 seconds at terminals
- The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- Case: JEDEC DO -214AC. molded plastic
- Terminals: Axial leads. Solderable per MIL - STD - 750 Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.003 ounce. 0.093 grams
- Mounting position: Any


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 current by 20%

| | SYMBOL | SS22 | SS23 | SS24 | SS25 | SS26 | UNITS |
|--|------------|-------------|------|------|------|------|-------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | 50 | 60 | V |
| Maximum RMS Voltage | V_{RMS} | 14 | 21 | 28 | 35 | 42 | V |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 30 | 40 | 50 | 60 | V |
| Maximum Average Forward Rectified Current 9.5mm Lead Length. $T_A = 75^\circ\text{C}$ | $I_{(AV)}$ | 2.0 | | | | | A |
| Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load | I_{FSM} | 50.0 | | | | | A |
| Maximum Forward Voltage at 1.5A DC | V_F | 0.50 | | | 0.70 | | V |
| Maximum Reverse Current $T_j = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_j = 100^\circ\text{C}$ | I_R | 0.5 15.0 | | | | | mA |
| Typical Junction Capacitance (Note 1) | C_j | 150 | | | | | pF |
| Typical Thermal Resistance (Note 2) | R_{QJA} | 20 | | | | | °C/W |
| Operating Junction Temperature Range | T_j | - 55 to 125 | | | | | °C |
| Storage Temperature Range | T_{STG} | - 55 to 150 | | | | | °C |

- NOTE:**
1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
 2. P.C.B.mounted with 0.2×0.2 (5.0×5.0mm)copper pad areas



Fig.1-Forward Current Derating Curve

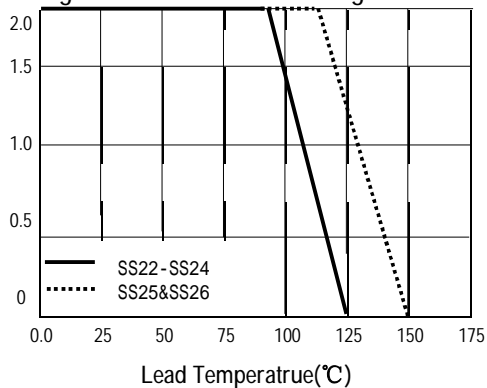


Fig.2-Maximum Non-repetitive Surge Current

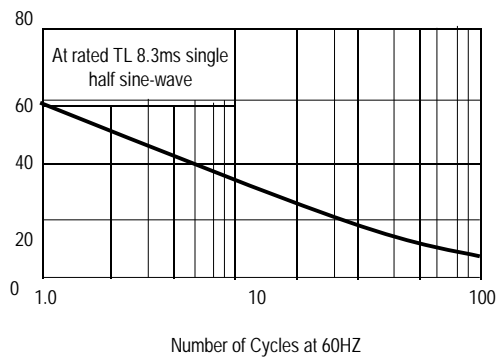


FIG. 3 -- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

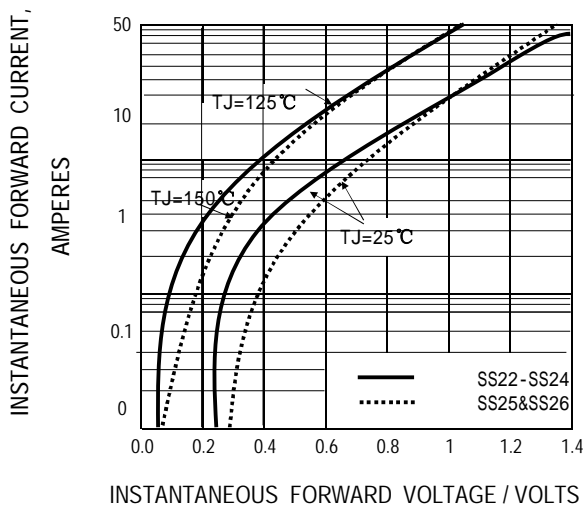


FIG. 4 -- TYPICAL REVERSE CHARACTERISTICS

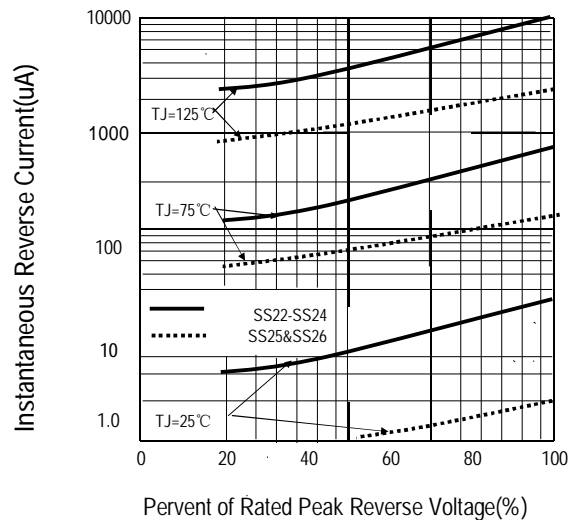


FIG. 5 -- Typical Junction Capacitance

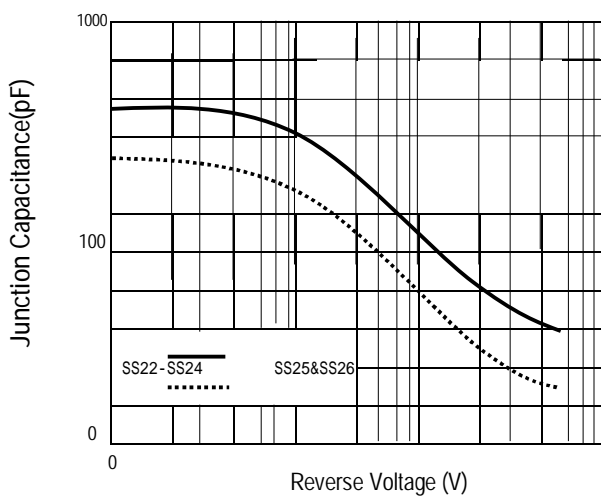


FIG. 6 -- Typical Transient Thermal Impedance

