



SS12~SS1200

Surface Mount Schottky Rectifiers

Major Ratings and Characteristics

| | |
|--------------------|---------------------------|
| $I_{F(AV)}$ | 1.0 A |
| V_{RRM} | 20 V to 200 V |
| I_{FSM} | 30 A |
| V_F | 0.55V, 0.7V, 0.85V, 0.95V |
| $T_j \text{ max.}$ | 150 °C |

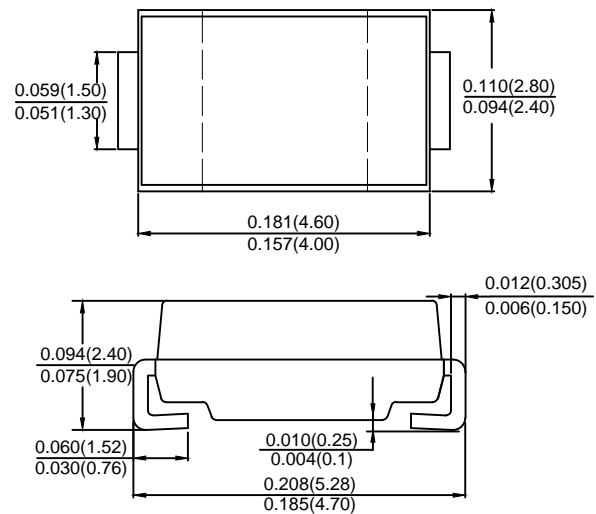
Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- **Case:** JEDEC DO-214AC (SMA) molded plastic
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

SMA/DO-214AC



Dimensions in inches and (millimeters)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

($T_A = 25\text{ °C}$ unless otherwise noted)

| | Symbol | SS12 | SS14 | SS16 | SS18 | SS110 | SS1150 | SS1200 | UNIT | |
|--|-----------------|-----------------------|------|------|------|-------|--------|--------|------------|----|
| Maximum repetitive peak reverse voltage | V_{RRM} | 20 | 40 | 60 | 80 | 100 | 150 | 200 | V | |
| Maximum RMS voltage | V_{RMS} | 14 | 28 | 46 | 56 | 70 | 105 | 140 | V | |
| Maximum DC blocking voltage | V_{DC} | 20 | 40 | 60 | 80 | 100 | 150 | 200 | V | |
| Maximum average forward rectified current | $I_{F(AV)}$ | 1 | | | | | | | A | |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | I_{FSM} | 30 | | | | | | | A | |
| Maximum instantaneous forward voltage at 1.0A | V_F | 0.55 | 0.7 | 0.85 | 0.95 | | | | V | |
| Maximum DC reverse current at Rated DC blocking voltage | I_R | $T_A = 25\text{ °C}$ | | | | | | | 0.5 | mA |
| | | $T_A = 100\text{ °C}$ | | | | | | | 5 | mA |
| Voltage rate of change (rated VR) | dv/dt | 10000 | | | | | | | V/ μ s | |
| Thermal resistance from junction to ambient | $R_{\theta JA}$ | 88 | | | | | | | °C/W | |
| Operating junction and storage temperature range | T_J, T_{STG} | - 65 to +150 | | | | | | | °C | |



Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

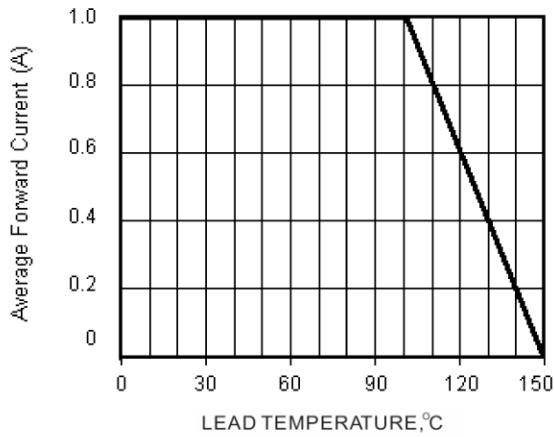


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

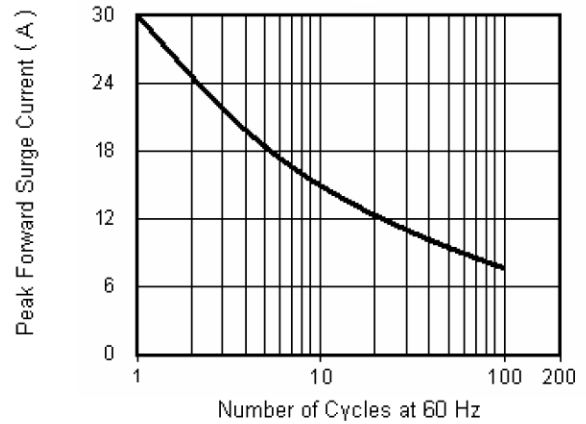


Fig.3 Typical Instantaneous Forward Characteristics

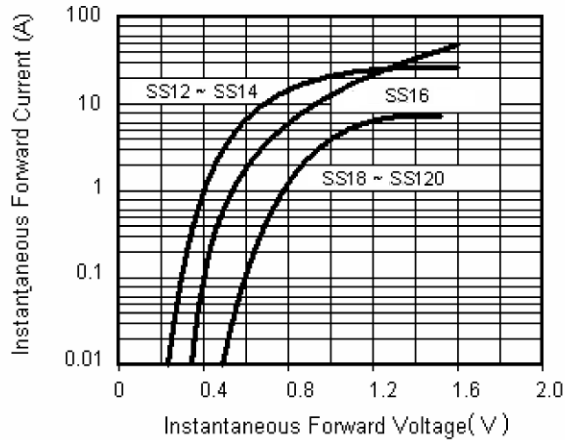


Fig.4 Typical Reverse Leakage Characteristics

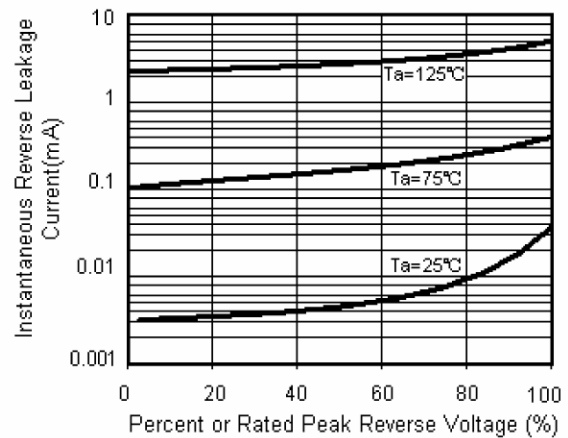
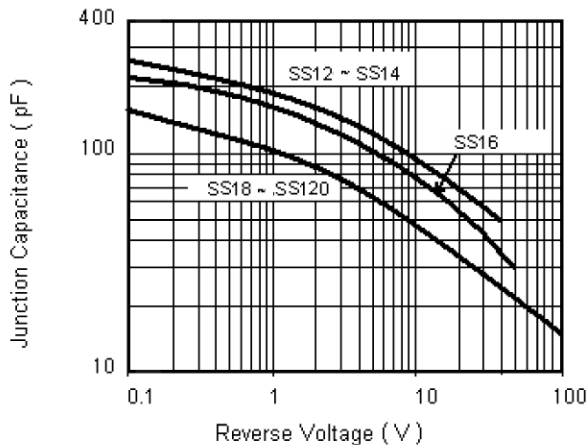


Fig.5 Typical Junction Capacitance



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