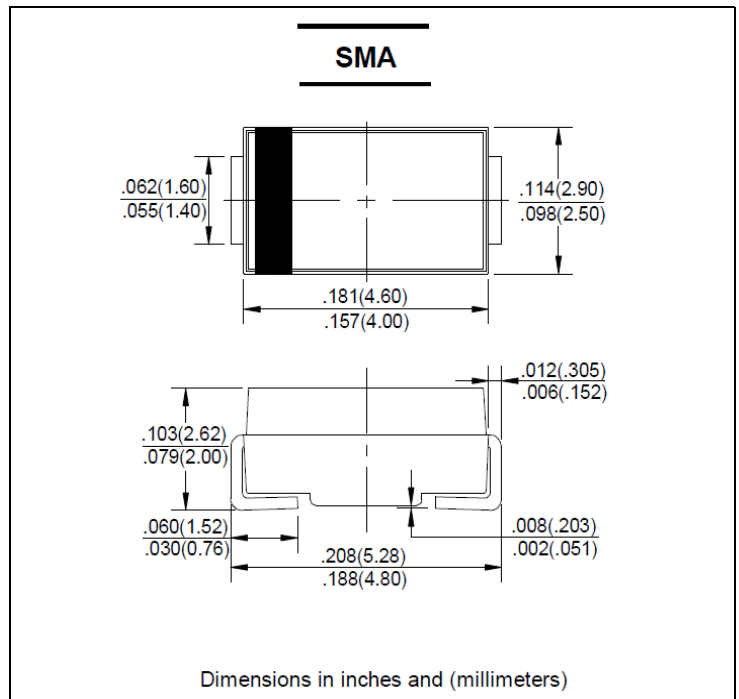


FEATURES

- 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 current derate by 20%

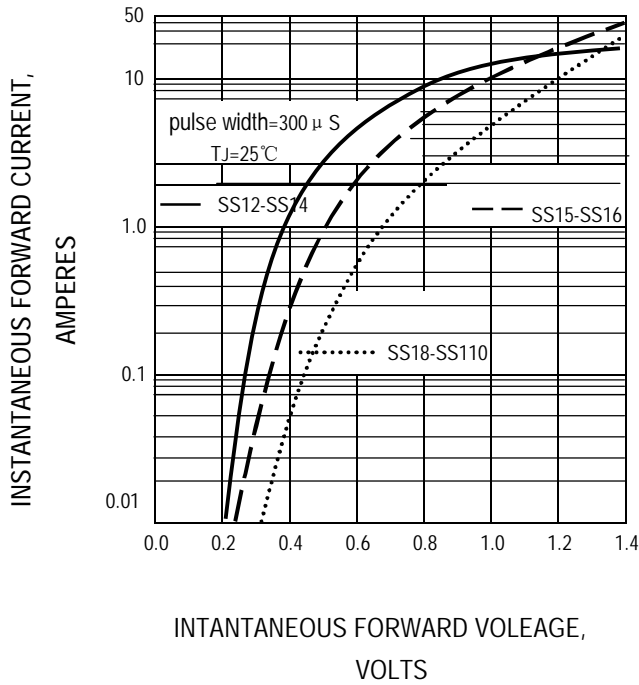
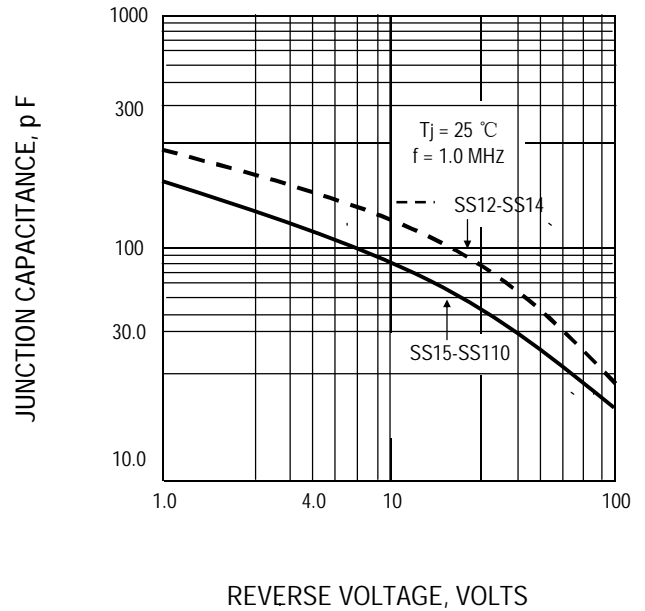
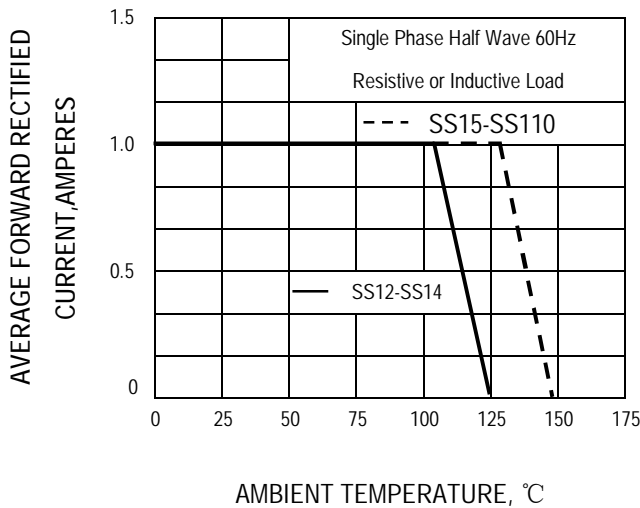
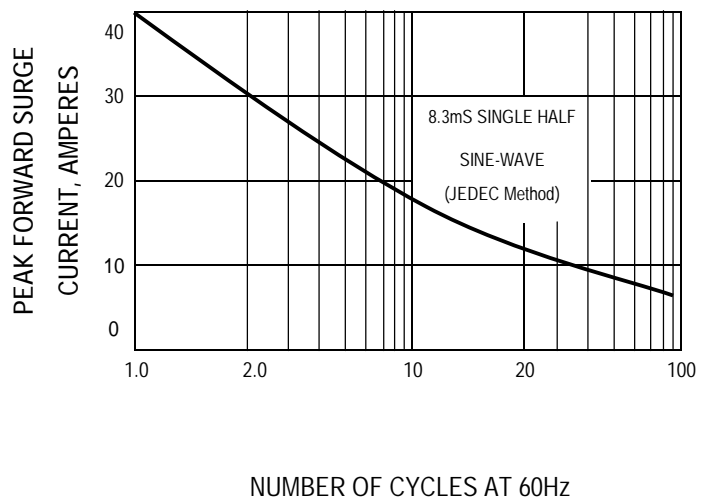
| | SYMBOL | SS12 | SS13 | SS14 | SS15 | SS16 | SS18 | SS110 | UNITS |
|--|------------|-------------|------|------|-------------|------|------|------------|--------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum RMS Voltage | V_{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | 70 | V |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| Maximum Average Forward Rectified Current 9.5mm Lead Length. $T_A = 75^\circ C$ | $I_{(AV)}$ | 1.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated $T_j = 125^\circ C$ | I_{FSM} | 40.0 | | | | | | | A |
| Maximum Forward Voltage at 1.0A DC | V_F | 0.45 | 0.55 | 0.70 | | 0.85 | | V | |
| Maximum Reverse Current $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 100^\circ C$ | I_R | 0.5 | | | | | | | m A |
| | | 6.0 | | | 5.0 | | | | |
| Typical Junction Capacitance (Note 1) | C_j | 110 | | | 90 | | | pF | |
| Typical Thermal Resistance (Note 2) | R_{QJA} | 88.0 | | | | | | | $^\circ C/W$ |
| Operating Junction Temperature Range | T_j | - 65 to 125 | | | - 65 to 150 | | | $^\circ C$ | |
| Storage Temperature Range | T_{STG} | - 65 to 150 | | | | | | | $^\circ C$ |

NOTE:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. P.C.B. mounted with 0.2x0.2 (5.0x5.0mm) copper pad areas

Reverse Voltage: 20 to 100 Volts

Forward Current: 1.0 Ampere

FIG.1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

FIG.2-TYPICAL JUNCTION CHARACTERISTICS

FIG.3-FORWARD CURRENT DERATING CURVE

FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT


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