



SS22 THRU SS26

2.0 AMPS. SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



FEATURES

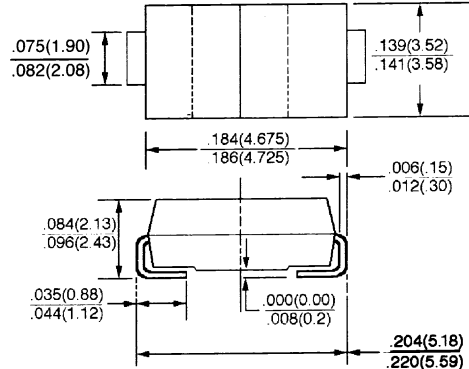
- * For surface mounted application
- * Metal to silicon rectifier, majority carrier conduction
- * Low forward voltage drop
- * Easy pick and place
- * High surge current capability
- * Plastic material used carries Underwriters Laboratory classification 94V-0
- * Epitaxial construction

MECHANICAL DATA

- * CASE: Molded plastic
- * Terminals: Solder plated
- * Polarity: Indicated by cathode band
- * Packaging: 12mm tape per EIA STD RS-481
- * Weight: 0.1 grams

VOLTAGE RANGE
20 to 60 Volts
CURRENT
2.0 Amperes

SMB/DO-214AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER | SYMBOLS | 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 at T_L (See Figure 1) | $I_{F(AV)}$ | 2.0 | | | | | A |
| Peak Forward Surge Current, (8.3 ms half sine) | I_{FSM} | 50 | | | | | A |
| Maximum Instantaneous Forward Voltage @ 2.0A | V_F | 0.50 | | | 0.70 | | V |
| Maximum D. C Reverse Current (NOTE 1) @ $T_a = 25^\circ\text{C}$ at Rated D. C Blocking Voltage @ $T_a = 100^\circ\text{C}$ | I_R | 0.5 | | | | 10.0 | mA |
| Maximum Thermal Resistance (NOTE 2) | $R_{\theta JA}$ $R_{\theta JL}$ | 17 75 | | | | | $^\circ\text{C/W}$ |
| Operating Temperature Range | T_J | - 65 to + 125 | | | - 60 to + 150 | | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | - 65 to + 150 | | | | | $^\circ\text{C}$ |

NOTE 1. Pulse test with PW = 300 usec, 1% Duty Cycle.
2. P. C. B mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES (SS22 THRU SS26)

FIG. 1 - FORWARD CURRENT DERATING CURVE

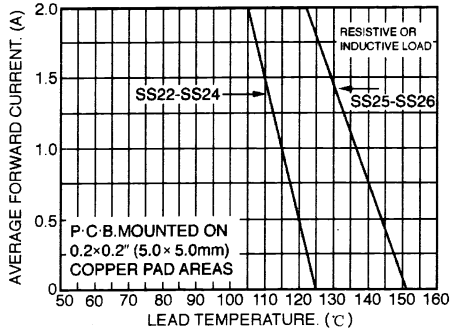


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

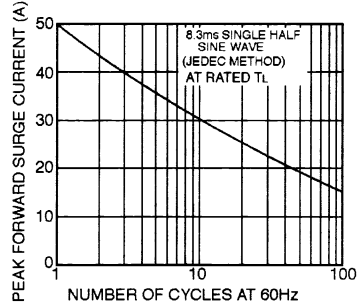


FIG. 4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

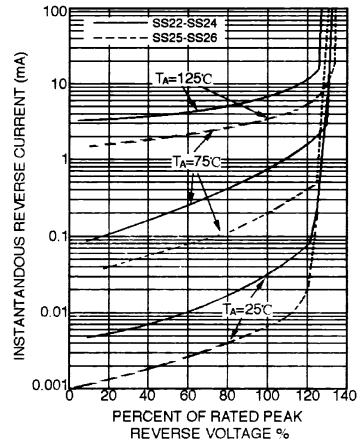


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

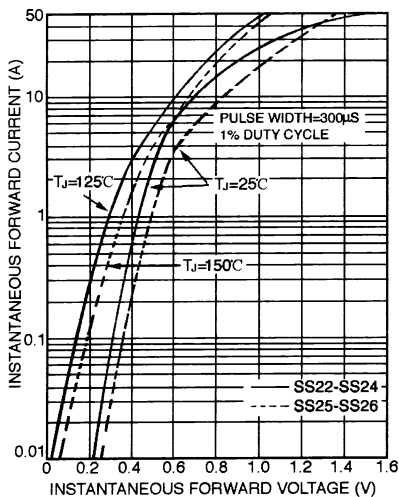


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

