



SS22 THRU SS26

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 60 Volts

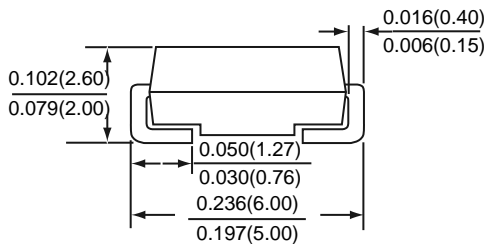
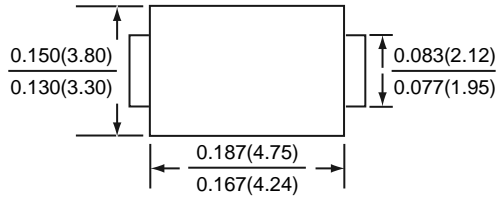
Forward Current - 2.0 Amperes

SMB / DO-214AA



FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * For surface mount applications
- * Low profile package
- * Built-in strain relief
- * Metal silicon junction, majority carrier conduction
- * 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
- * Guardring for overvoltage protection
- * High temperature soldering guaranteed : 260°C/10 seconds, at terminals



*Dimensions in inches and (millimeters)

MECHANICAL DATA

Case : JEDEC DO-214AA molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750D Method 2026

Polarity : Color band denotes cathode end

Weight : 0.003 ounces , 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| <i>Ratings at 25 °C ambient temperature unless otherwise specified.</i> | | SYMBOLS | SS22 | SS23 | SS24 | SS25 | SS26 | UNITS |
|--|----------|---------|-------------|------|------|-------------|------|--------|
| Maximum repetitive peak reverse voltage | | VRRM | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum RMS voltage | | VRMS | 14 | 21 | 28 | 35 | 42 | Volts |
| Maximum DC blocking voltage | | VDC | 20 | 30 | 40 | 50 | 60 | Volts |
| Maximum average forward rectified current (SEE FIG.1) | | I(AV) | 2.0 | | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | | IFSM | 50 | | | | | Amps |
| Maximum instantaneous forward voltage at 2.0 A (NOTE 1) | | VF | 0.50 | | | 0.70 | | Volts |
| Maximum DC reverse current at rated DC blocking voltage (NOTE 1) | TA=25°C | IR | 0.5 | | | | | mA |
| | TA=100°C | | 20 | | | 10 | | |
| Typical thermal resistance (NOTE 2) | | R θJA | 75 | | | | | °C / W |
| | | R θJL | 17 | | | | | |
| Operating junction temperature range | | TJ | -65 to +125 | | | -65 to +150 | | °C |
| Storage temperature range | | TSTG | -65 to +150 | | | | | °C |

NOTES : (1) Pulse test : 300us pulse width, 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

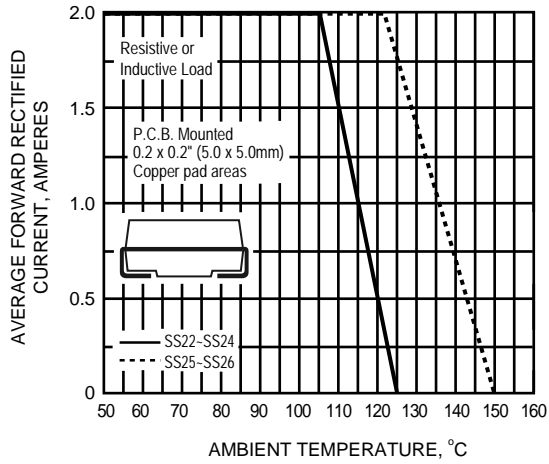


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

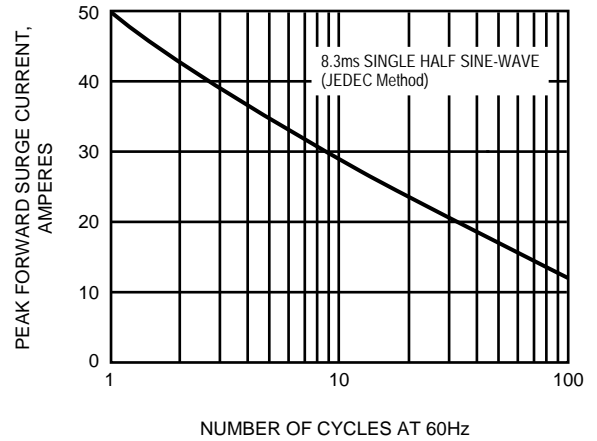


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

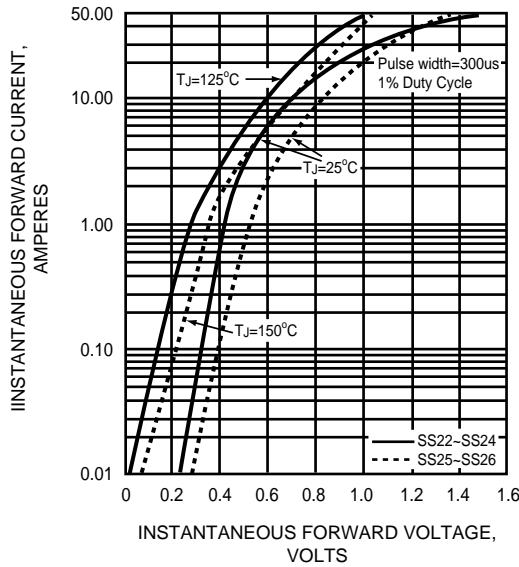


FIG.4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

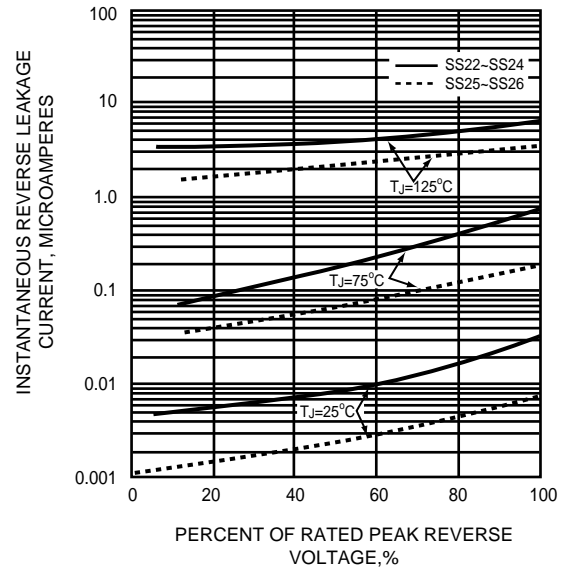


FIG.5 - TYPICAL JUNCTION CAPACITANCE

