

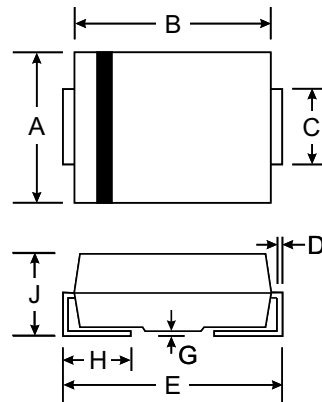
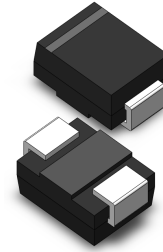
VOLTAGE RANGE: 20 - 100V
CURRENT: 2.0 A

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)



| SMB(DO-214AA) | | |
|----------------------|------|------|
| Dim | Min | Max |
| A | 3.30 | 3.94 |
| B | 4.06 | 4.70 |
| C | 1.91 | 2.21 |
| D | 0.15 | 0.31 |
| E | 5.00 | 5.59 |
| G | 0.10 | 0.20 |
| H | 0.76 | 1.52 |
| J | 2.00 | 2.62 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | Symbol | SS22 | SS23 | SS24 | SS25 | SS26 | SS28 | SS29 | SS210 | Unit |
|---|--------------------|-------------|------|------|------|------|------|------|-------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | VRRM VRWM VR | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V |
| RMS Reverse Voltage | VR(RMS) | 14 | 21 | 28 | 35 | 42 | 56 | 64 | 71 | V |
| Average Rectified Output Current @TL = 105°C | Io | 2.0 | | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 50 | | | | | | | | A |
| Forward Voltage @IF = 2.0A | VFM | 0.50 | | | 0.70 | | 0.85 | | | V |
| Peak Reverse Current @TA = 25°C At Rated DC Blocking Voltage @TA = 100°C | IRM | 0.5 20 | | | | | | | | mA |
| Typical Thermal Resistance (Note 1) | RθJL RθJA | 17 75 | | | | | | | | °C/W |
| Operating Temperature Range | Tj | -65 to +125 | | | | | | | | °C |
| Storage Temperature Range | TSTG | -65 to +150 | | | | | | | | °C |

Note: 1. Mounted on P.C. Board with 8.0mm² copper pad area.

FIG. 1 - FORWARD CURRENT DERATING CURVE

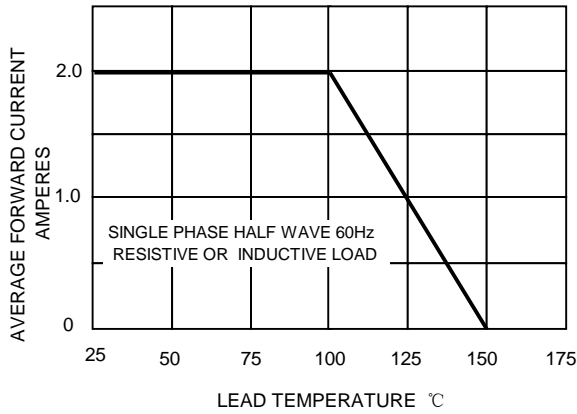


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

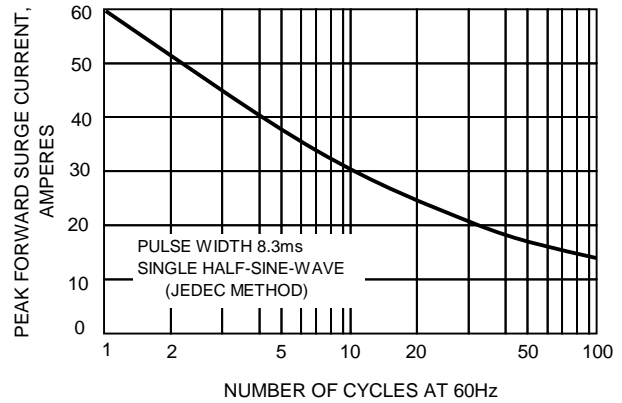


FIG.4-TYPICAL FORWARD CHARACTERISTICS

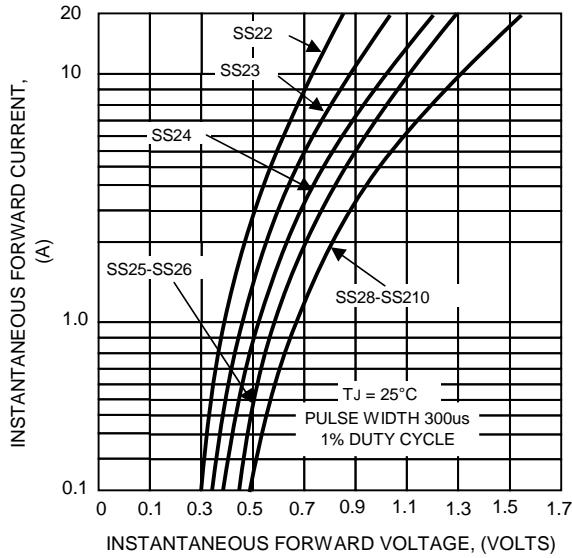


FIG.4-TYPICAL JUNCTION CAPACITANCE

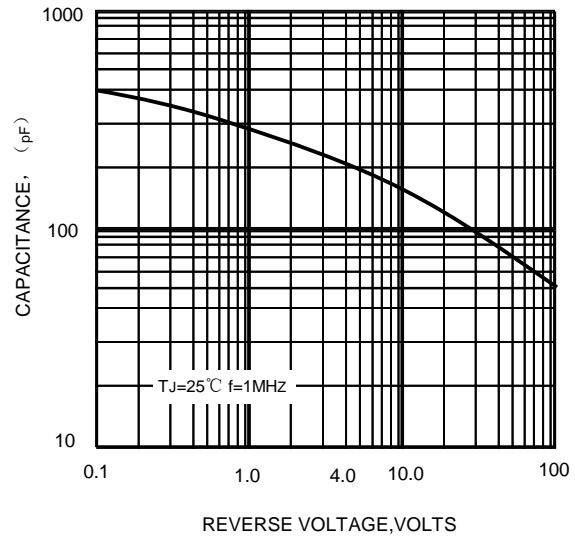


FIG.5-TYPICAL REVERSE CHARACTERISTICS

