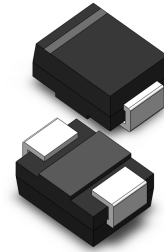


**VOLTAGE RANGE: 20 - 100V**  
**CURRENT: 2.0 A**

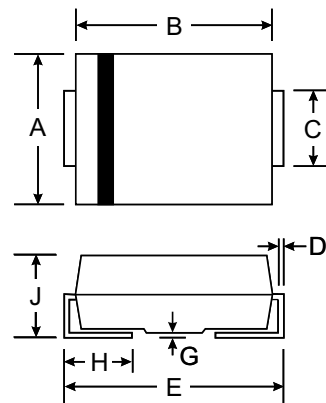
### Features



- 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<sub>A</sub> = 25°C unless otherwise specified

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

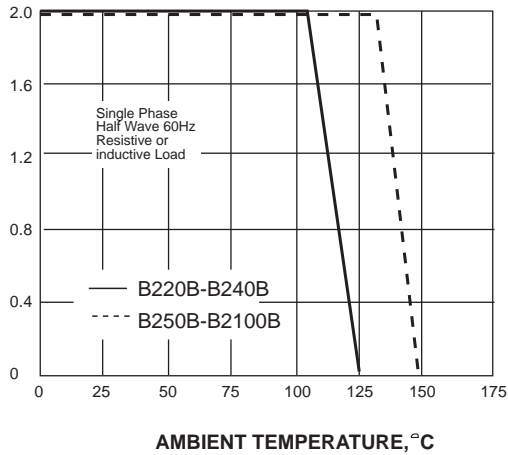
| Characteristic  | Symbol                               | B220B       | B230B | B240B | B250B | B260B | B280B | B290B | B2100B | Unit |
|---|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|--------|------|
| Peak Repetitive Reverse Voltage   | V <sub>RRM</sub>                     |             |       |       |       |       |       |       |        | V    |
| Working Peak Reverse Voltage  | V <sub>RWM</sub>                     | 20          | 30    | 40    | 50    | 60    | 80    | 90    | 100    |      |
| DC Blocking Voltage   | V <sub>R</sub>                       |             |       |       |       |       |       |       |        |      |
| RMS Reverse Voltage   | V <sub>R(RMS)</sub>                  | 14          | 21    | 28    | 35    | 42    | 56    | 64    | 71     | V    |
| Average Rectified Output Current @T <sub>L</sub> = 105°C  | I <sub>O</sub>                       | 2.0         |       |       |       |       |       |       |        | A    |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on<br>rated load (JEDEC Method) | I <sub>FSM</sub>                     | 50          |       |       |       |       |       |       |        | A    |
| Forward Voltage @I <sub>F</sub> = 2.0A  | V <sub>FM</sub>                      | 0.55        |       | 0.70  |       | 0.85  |       |       | V      |      |
| Peak Reverse Current @T <sub>A</sub> = 25°C   | I <sub>RM</sub>                      | 0.5         |       |       |       |       |       |       |        | mA   |
| At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C  |                                      | 20          |       |       |       |       |       |       |        |      |
| Typical Thermal Resistance (Note 1)   | R <sub>θJL</sub><br>R <sub>θJA</sub> | 17<br>75    |       |       |       |       |       |       |        | °C/W |
| Operating Temperature Range   | T <sub>j</sub>                       | -65 to +125 |       |       |       |       |       |       |        | °C   |
| Storage Temperature Range   | T <sub>STG</sub>                     | -65 to +150 |       |       |       |       |       |       |        | °C   |

Note: 1. Mounted on P.C. Board with 8.0mm<sup>2</sup> copper pad area.

## RATINGS AND CHARACTERISTIC CURVES B220B THRU B2100B

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT, AMPERES

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

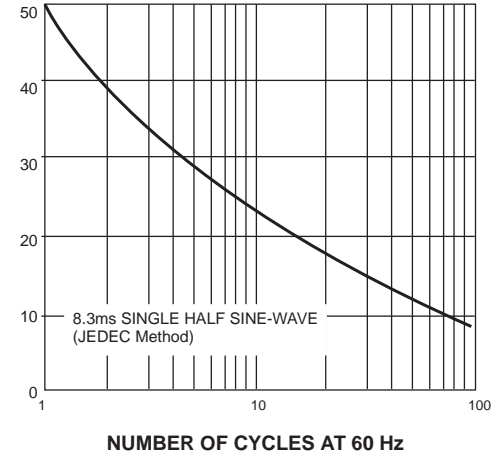


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

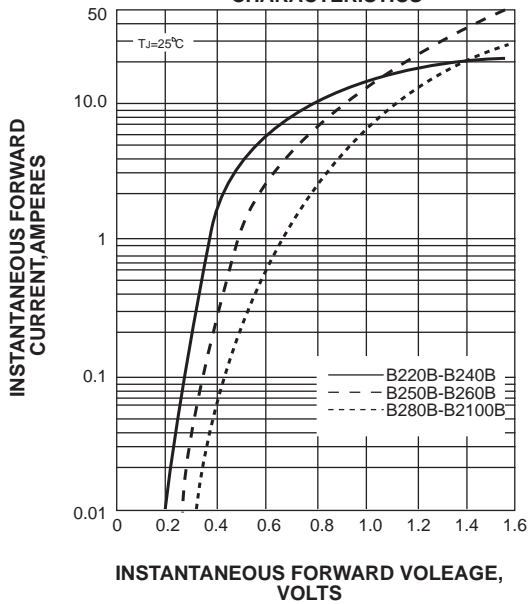


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

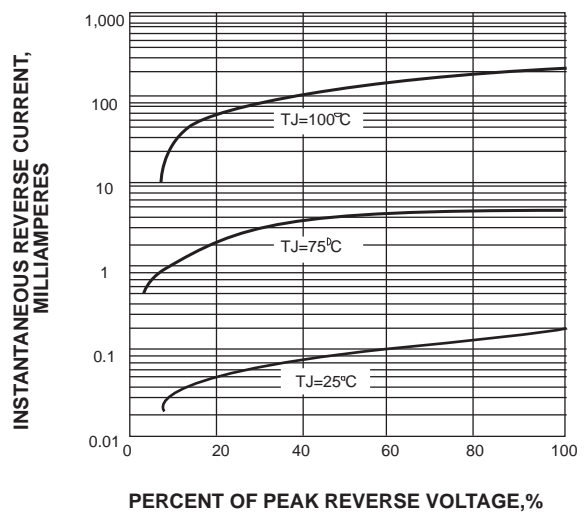


FIG. 5-TYPICAL JUNCTION CAPACITANCE

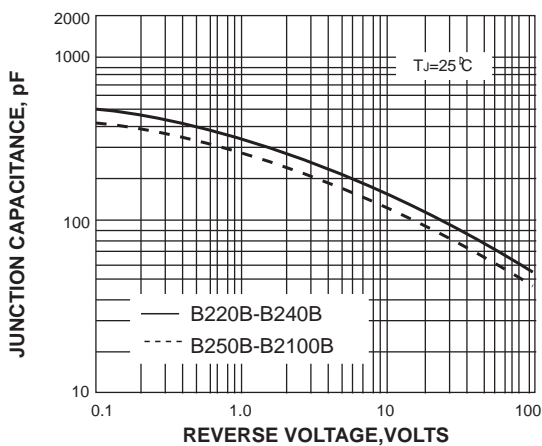
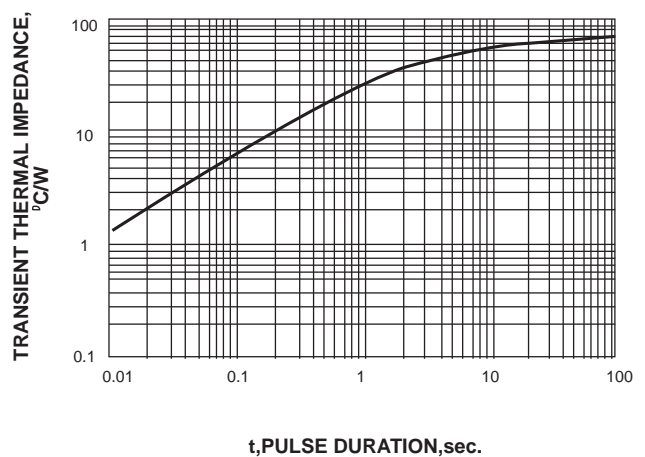


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



单击下面可查看定价，库存，交付和生命周期等信息

[>>SUNMATE\(森美特\)](#)