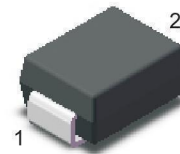


## Features

- For surface mount applications
- High forward surge current capability
- Low profile package
- High efficiency
- Metal silicon junction, majority carriers conduction

## SMB



1.Cathode — 2.Anode

## Marking Code :

SS22B-TN: SS22  
SS24B-TN: SS24  
SS26B-TN: SS26  
SS28B-TN: SS28  
SS210B-TN: SS210  
SS212B-TN: SS212  
SS215B-TN: SS215  
SS220B-TN: SS220

## Maximum Ratings and Electrical Characteristics

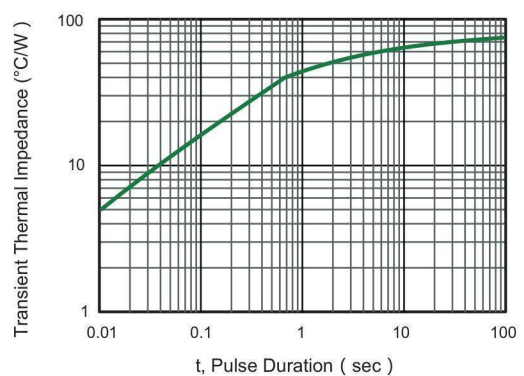
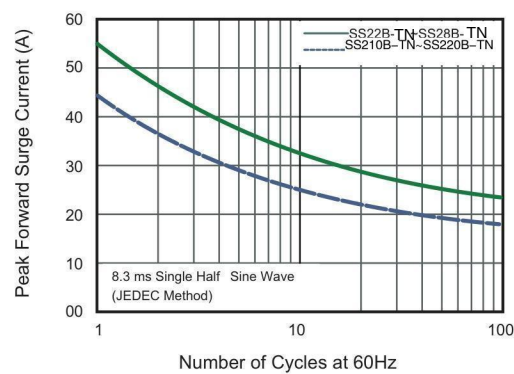
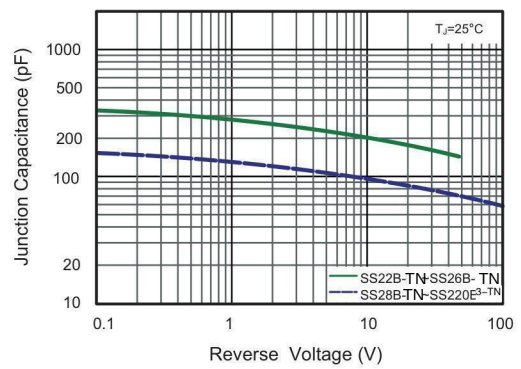
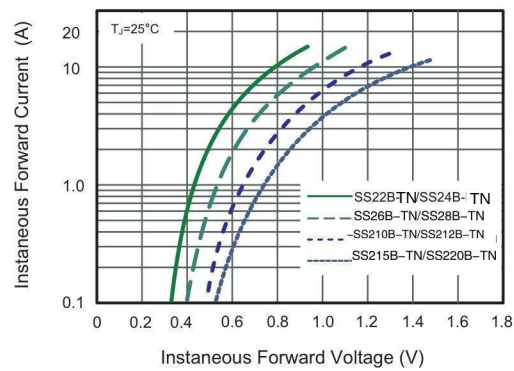
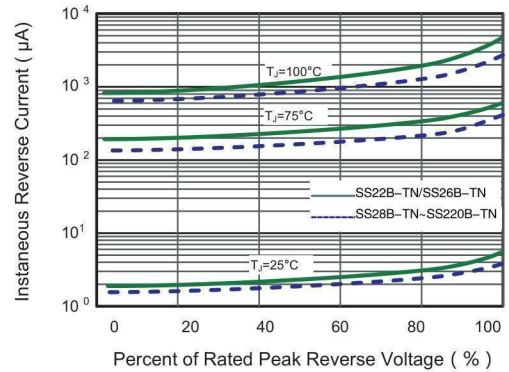
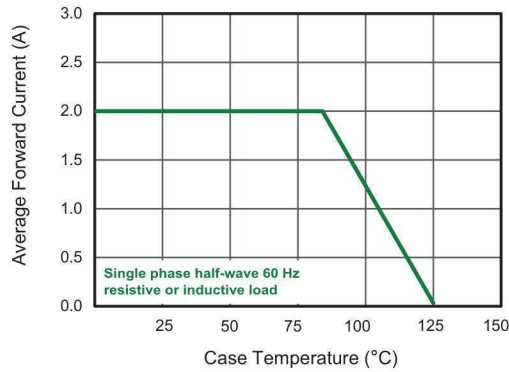
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

| Parameter                                                                                                       | Symbol             | SS22B<br>–TN | SS24B<br>–TN | SS26B<br>–TN | SS28B<br>–TN | SS210B<br>–TN | SS212B<br>–TN | SS215B<br>–TN | SS220B<br>–TN | Unit |
|-----------------------------------------------------------------------------------------------------------------|--------------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|------|
| Maximum Repetitive Peak Reverse Voltage                                                                         | V <sub>RRM</sub>   | 20           | 40           | 60           | 80           | 100           | 120           | 150           | 200           | V    |
| Maximum RMS Voltage                                                                                             | V <sub>RMS</sub>   | 14           | 28           | 42           | 56           | 70            | 84            | 105           | 140           | V    |
| Maximum DC Blocking Voltage                                                                                     | V <sub>DC</sub>    | 20           | 40           | 60           | 80           | 100           | 120           | 150           | 200           | V    |
| Maximum Average Forward Rectified Current                                                                       | I <sub>F(AV)</sub> | 2.0          |              |              |              |               |               |               |               | A    |
| Peak Forward Surge Current,8.3ms<br>Single Half Sine-wave Superimposed<br>on Rated Load (JEDEC method)          | I <sub>FSM</sub>   | 55           |              |              |              | 45            |               |               |               | A    |
| Maximum Instantaneous Forward Voltage at 2A                                                                     | V <sub>F</sub>     | 0.55         |              | 0.70         |              | 0.85          |               | 0.95          |               | V    |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage<br>T <sub>A</sub> = 25 °C<br>T <sub>A</sub> = 100 °C | I <sub>R</sub>     | 0.5<br>5     |              | 0.3<br>3     |              |               |               |               |               | mA   |
| Typical Junction Capacitance <sup>Note1</sup>                                                                   | C <sub>J</sub>     | 220          |              | 110          |              |               |               |               |               | pF   |
| Typical Thermal Resistance <sup>Note2</sup>                                                                     | R <sub>θJA</sub>   | 60           |              |              |              |               |               |               |               | °C/W |
| Operating Junction Temperature Range                                                                            | T <sub>J</sub>     | -55 to +125  |              |              |              |               |               |               |               | °C   |
| Storage Temperature Range                                                                                       | T <sub>STG</sub>   | -55 to +150  |              |              |              |               |               |               |               | °C   |

## Note:

1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

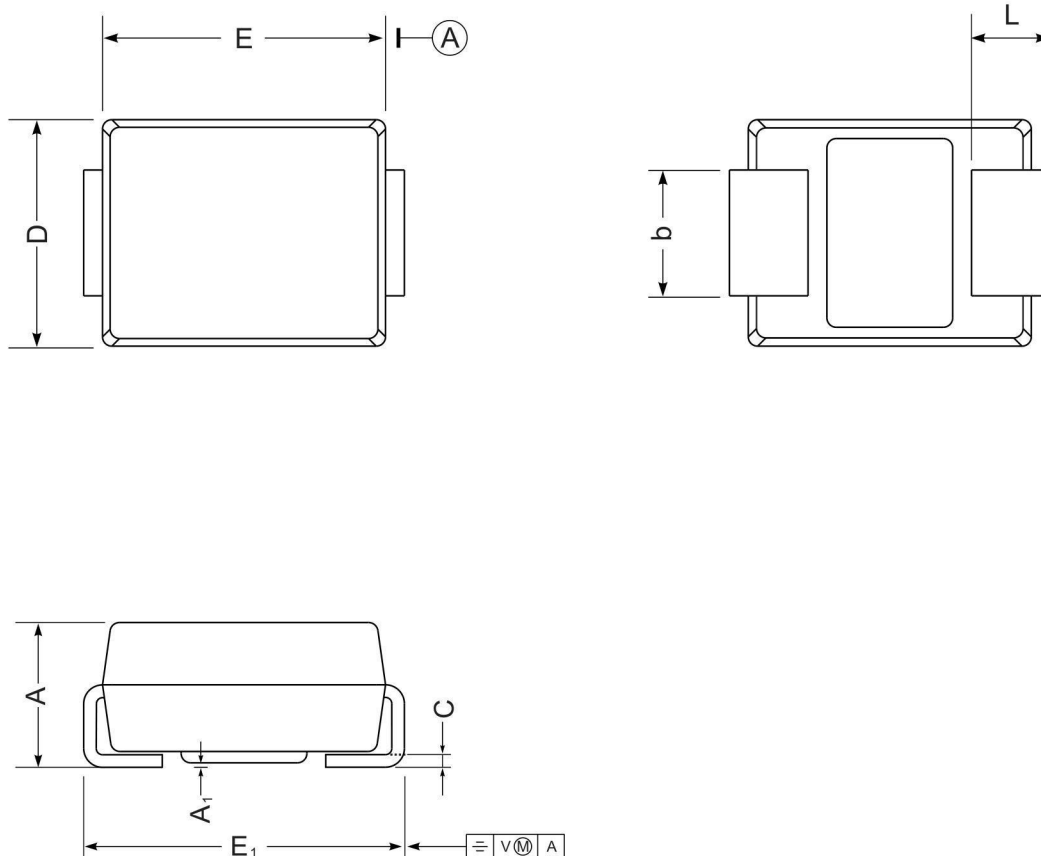
## Typical Characteristic Curves



## Package Outline

SMB

Dimensions in mm



| UNIT |     | A    | E    | D    | E1   | A1   | L   | C     | b   |
|------|-----|------|------|------|------|------|-----|-------|-----|
| mm   | max | 2.44 | 4.70 | 3.94 | 5.59 | 0.20 | 1.5 | 0.305 | 2.2 |
|      | min | 2.13 | 4.06 | 3.3  | 5.08 | 0.05 | 0.8 | 0.152 | 1.9 |
| mil  | max | 96   | 185  | 155  | 220  | 7.9  | 59  | 12    | 87  |
|      | min | 84   | 160  | 130  | 200  | 2.0  | 32  | 6     | 75  |