

# SMD Schottky Barrier Rectifier

## SS22-G THRU SS210-G

### Reverse Voltage: 20 ~ 100 Volts

### Forward Current: 2.0 Amp

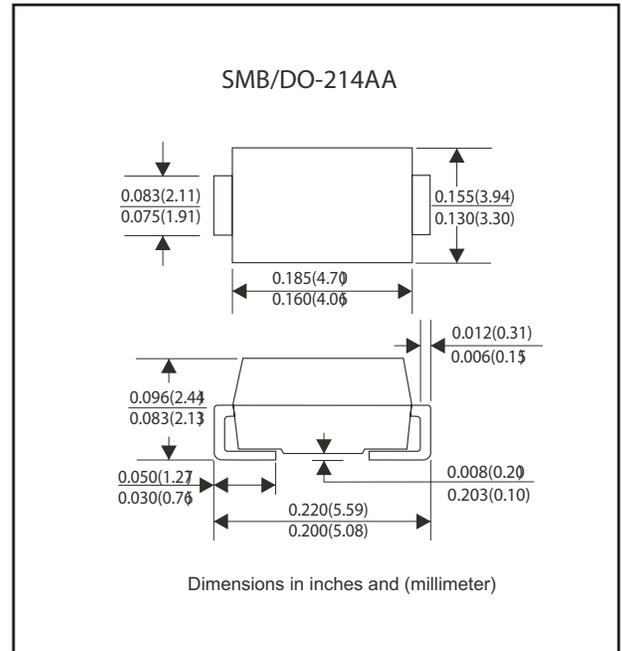


### Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters lab. flammability classification 94V-0
- Built-in strain relief
- Low forward voltage drop

### Mechanical Data

- Case: JEDEC DO-214AA molded plastic
- Terminal: Solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.093 gram



### Maximum Rating and Electrical Characteristics

| Parameter   | Symbol           | SS22-G      | SS24-G | SS26-G | SS210-G | Unit |
|---|------------------|-------------|--------|--------|---------|------|
| Max. Repetitive Peak Reverse Voltage  | V <sub>RRM</sub> | 20          | 40     | 60     | 100     | V    |
| Max. DC Blocking Voltage  | V <sub>DC</sub>  | 20          | 40     | 60     | 100     | V    |
| Max. RMS Voltage  | V <sub>RMS</sub> | 14          | 28     | 42     | 70      | V    |
| Peak Surge Forward Current<br>8.3ms single halfsine-wave<br>superimposed on rateload<br>( JEDEC method) | I <sub>FSM</sub> | 50          |        |        |         | A    |
| Max. Average Forward Current  | I <sub>o</sub>   | 2.0         |        |        |         | A    |
| Max. Instantaneous Forward Current<br>at 2.0 A  | V <sub>F</sub>   | 0.50        |        | 0.70   | 0.85    | V    |
| Max. DC Reverse Current at Rated DC<br>Blocking Voltage<br>T <sub>a</sub> =25°C                         | I <sub>R</sub>   | 0.5         |        |        |         | mA   |
|   |                  | 20          |        | 10     |         |      |
| Max. Thermal Resistance (Note 1)  | R <sub>θJA</sub> | 75          |        |        |         | °C/W |
|   | R <sub>θJL</sub> | 17          |        |        |         |      |
| Operating Junction temperature  | T <sub>j</sub>   | -50 to +125 |        |        |         | °C   |
| Storage Temperature   | T <sub>STG</sub> | -65 to +150 |        |        |         | °C   |

Note 1: Thermal resistance from junction to ambient and junction to to lead P.C.B. Mounted on 0.2 x 0.2 copper pad areas

“-G” suffix designates RoHS compliant Version



## Rating and Characteristic Curves (SS22-G Thru SS2100-G)

Fig. 1 - Reverse Characteristics

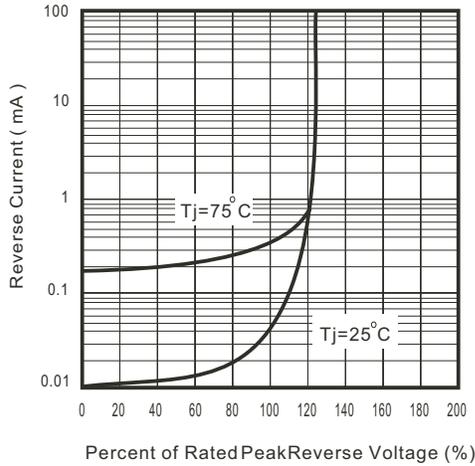


Fig. 2 - Forward Characteristics

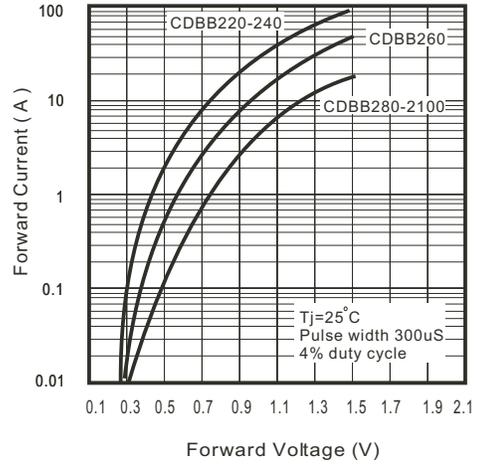


Fig. 3 - Junction Capacitance

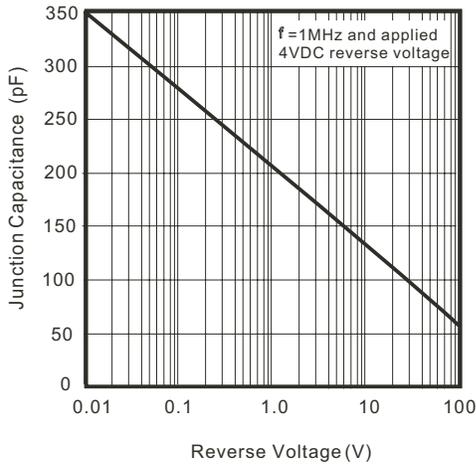


Fig. 4 - Current Derating Curve

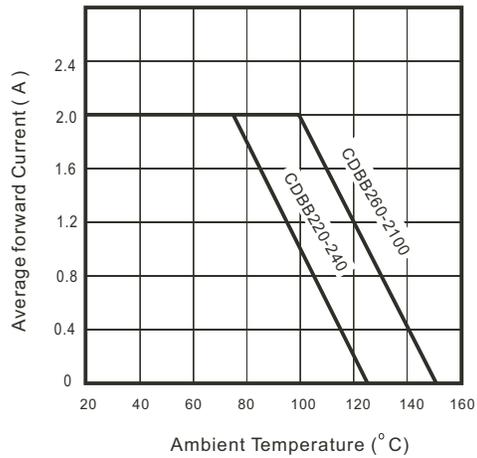


Fig. 5 - Non Repetitive Forward Surge Current

