

## CDBB220 Thru CDBB2100

Reverse Voltage: 20 - 100 Volts  
Forward Current: 2.0 Amp

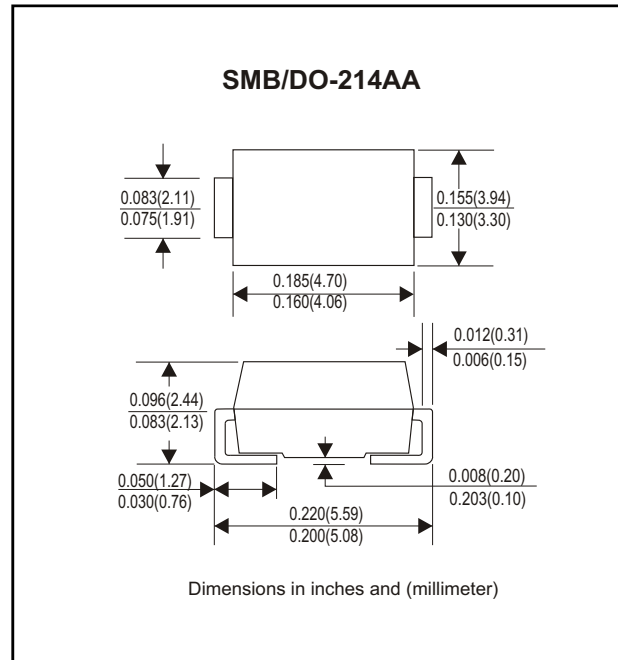


### Features

- 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
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Approx. Weight: 0.093 gram



### Maximum Ratings and Electrical Characteristics

| Parameter  | Symbol           | CDBB220     | CDBB240 | CDBB260 | CDBB2100 | 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<br><br>T <sub>a</sub> =100°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 lead P.C.B. Mounted on 0.2 x 0.2 copper pad areas

## Rating and Characteristic Curves (CDBB220 Thru CDBB2100)

Fig. 1 - Reverse Characteristics

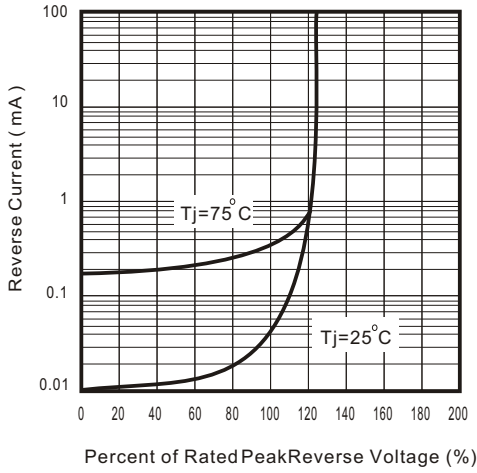


Fig.2 - Forward Characteristics

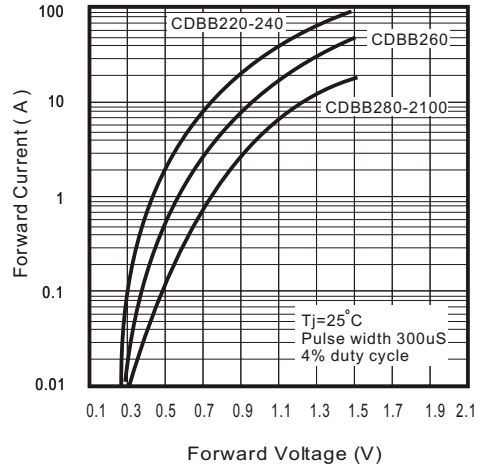


Fig. 3 - Junction Capacitance

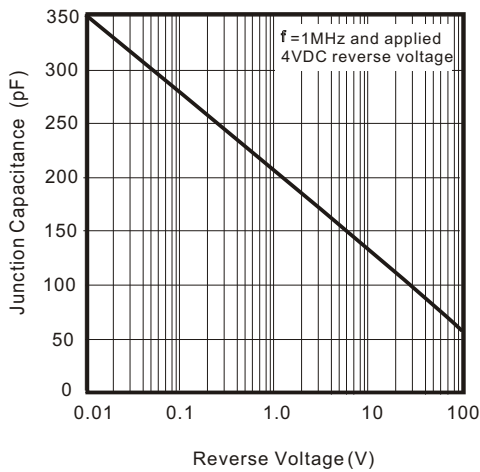


Fig. 4 - Current Derating Curve

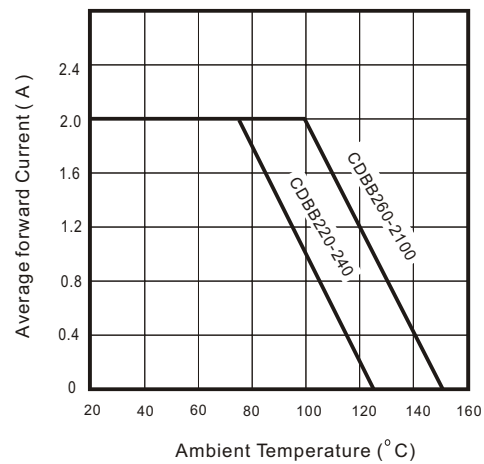


Fig. 5 - Non Repetitive Forward Surge Current

