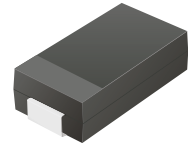


## CDBB120-G Thru. CDBB1100-G

Reverse Voltage: 20 to 100 Volts

Forward Current: 1.0 Amp

RoHS Device

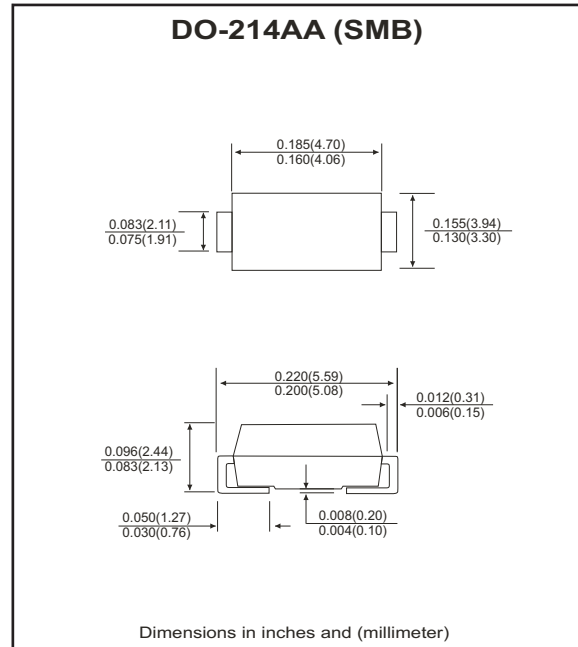


### Features

- 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.
- Approx. weight: 0.093 grams



### Maximum Ratings and Electrical Characteristics

| Parameter  | Symbol                             | CDBB 120-G  | CDBB 140-G | CDBB 160-G | CDBB 180-G | CDBB 1100-G | Units              |   |
|--|------------------------------------|-------------|------------|------------|------------|-------------|--------------------|---|
| Max. repetitive peak reverse voltage   | $V_{RRM}$                          | 20          | 40         | 60         | 80         | 100         | V                  |   |
| Max. DC blocking voltage   | $V_{DC}$                           | 20          | 40         | 60         | 80         | 100         | V                  |   |
| Max. RMS voltage   | $V_{RMS}$                          | 14          | 28         | 42         | 56         | 70          | V                  |   |
| Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)                       | $I_{FSM}$                          | 30          |            |            |            |             |                    | A |
| Max. average forward current   | $I_o$                              | 1.0         |            |            |            |             |                    | A |
| Max. instantaneous forward voltage at 1.0A   | $V_F$                              | 0.50        |            | 0.70       | 0.85       |             | V                  |   |
| Max. DC reverse current at $T_A=25\text{ }^\circ\text{C}$<br>rated DC blocking voltage $T_A=100\text{ }^\circ\text{C}$ | $I_R$                              | 0.5         |            |            | 10         |             | mA                 |   |
| Max. thermal resistance (Note 1)   | $R_{\theta JA}$<br>$R_{\theta JL}$ | 75          |            |            | 17         |             | $^\circ\text{C/W}$ |   |
| Max. operating junction temperature  | $T_J$                              | 125         |            |            |            |             | $^\circ\text{C}$   |   |
| Storage temperature  | $T_{STG}$                          | -65 to +150 |            |            |            |             | $^\circ\text{C}$   |   |

Notes: 1. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2x0.2 inch copper pad area.

## RATING AND CHARACTERISTIC CURVES (CDBB120-G thru CDBB1100-G)

Fig.1 Reverse Characteristics

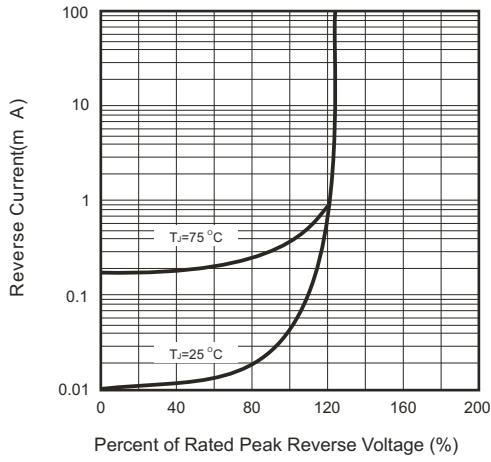


Fig.2 Forward Characteristics

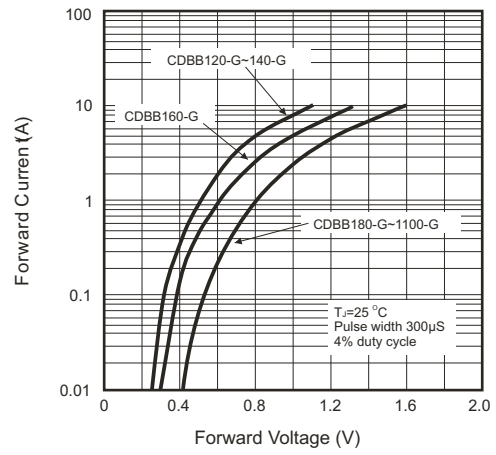


Fig.3 Junction Capacitance

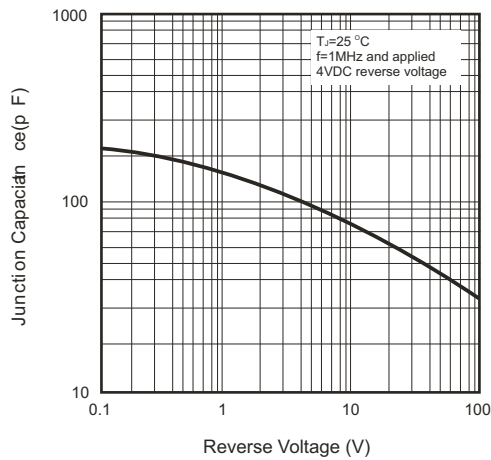


Fig.4 Current Derating Curve

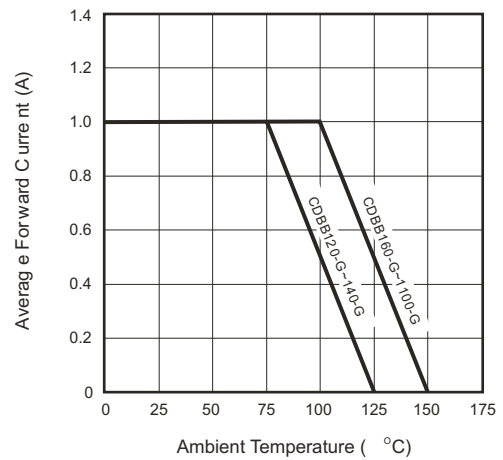


Fig.5 Non-repetitive Forward Surge Current

