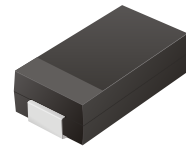


## CEFB101 Thru CEFB105

Reverse Voltage: 50 - 600 Volts  
Forward Current: 1.0 Amp

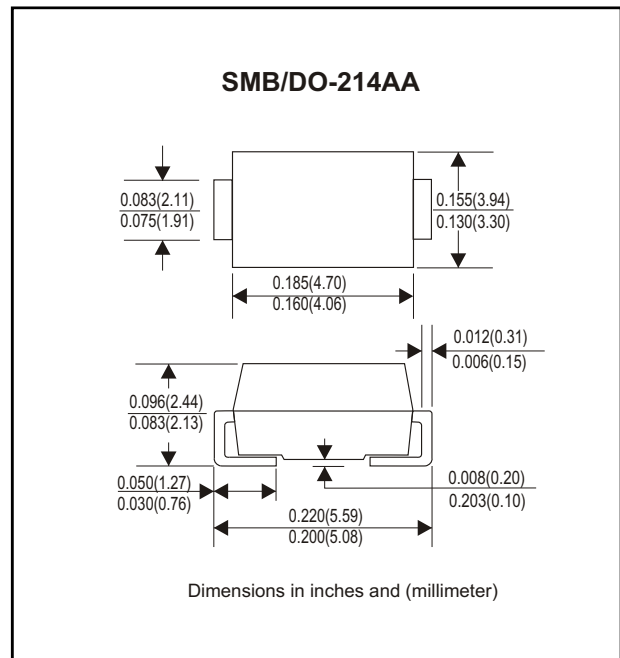


### Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Built-in strain relief
- High surge current capability

### Mechanical data

- Case: JEDEC DO-214AA molded plastic
- Terminals: solderable per MIL-STD-202F, method 208
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Approx. Weight: 0.093 gram



### Maximum Ratings and Electrical Characteristics

| Parameter   | Symbol          | CEFB 101     | CEFB 102 | CEFB 103 | CEFB 104 | CEFB 105 | Unit          |
|---|-----------------|--------------|----------|----------|----------|----------|---------------|
| Max. Repetitive Peak Reverse Voltage  | $V_{RRM}$       | 50           | 100      | 200      | 400      | 600      | V             |
| Max. DC Blocking Voltage  | $V_{DC}$        | 50           | 100      | 200      | 400      | 600      | V             |
| Max. RMS Voltage  | $V_{RMS}$       | 35           | 70       | 140      | 280      | 420      | V             |
| Peak Surge Forward Current<br>8.3ms single half sine-wave<br>superimposed on rated load<br>( JEDEC method ) | $I_{FSM}$       | 40           |          |          | 35       |          | A             |
| Max. Average Forward Current  | $I_o$           | 1.0          |          |          |          |          | A             |
| Max. Instantaneous Forward Current<br>at 1.0 A  | $V_F$           | 0.875        |          |          | 1.1      | 1.25     | V             |
| Reverse recovery time   | $T_{rr}$        | 25           |          |          | 35       | 50       | nS            |
| Max. DC Reverse Current at Rated DC<br>Blocking Voltage<br>$T_a = 25^{\circ}C$<br>$T_a = 125^{\circ}C$      | $I_R$           | 5<br>250     |          |          |          |          | $\mu A$       |
| Max. Thermal Resistance (Note 1)  | $R_{\theta JL}$ | 13           |          |          |          |          | $^{\circ}C/W$ |
| Operating Junction Temperature  | $T_j$           | -155 to +155 |          |          |          |          | $^{\circ}C$   |
| Storage Temperature   | $T_{STG}$       | -155 to +125 |          |          |          |          | $^{\circ}C$   |

Note 1: Thermal resistance from junction to lead, 8.0mmsquare (0.13mm thick) land areas.

## Rating and Characteristic Curves (CEFB101 Thru CEFB105)

Fig. 1 - Reverse characteristics

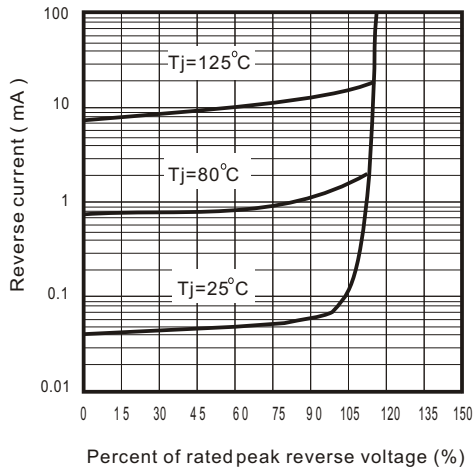


Fig.2 - Forward characteristics

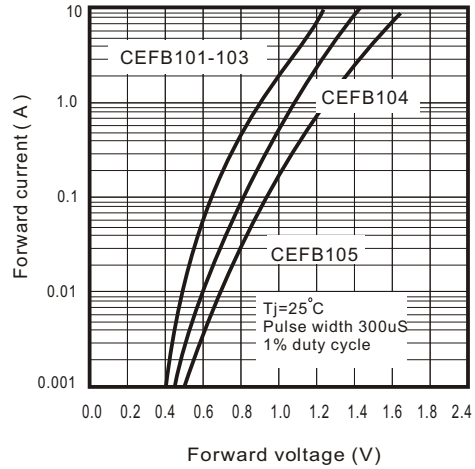


Fig. 3 - Junction capacitance

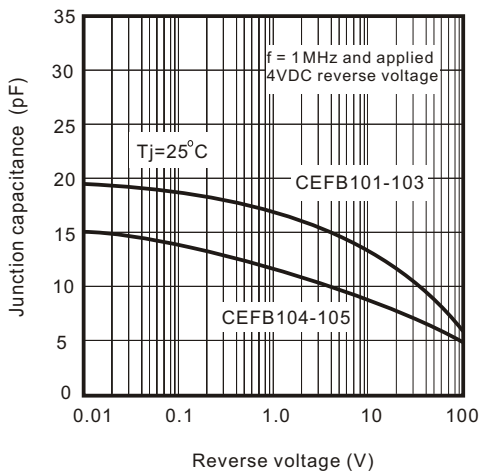


Fig. 4 - Non repetitive forward surge current

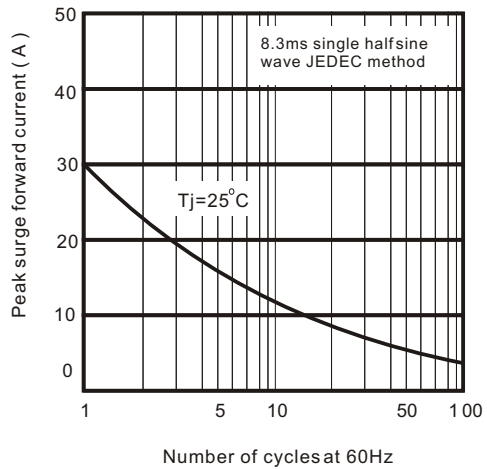


Fig. 5 - Test circuit diagram and Reverse recovery time characteristics

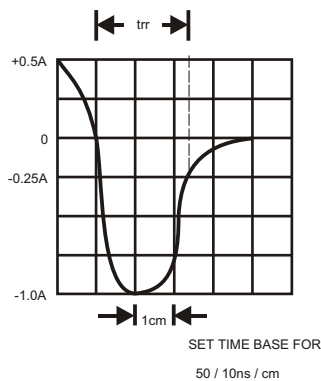
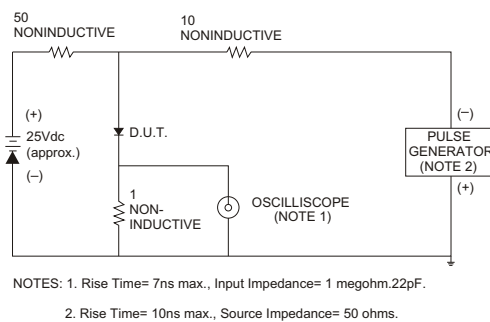


Fig. 6 - Current derating curve

