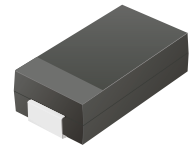


# CEFB201-G Thru. CEFB205-G

Reverse Voltage: 50 to 600 Volts

Forward Current: 2.0 Amp

RoHS Device

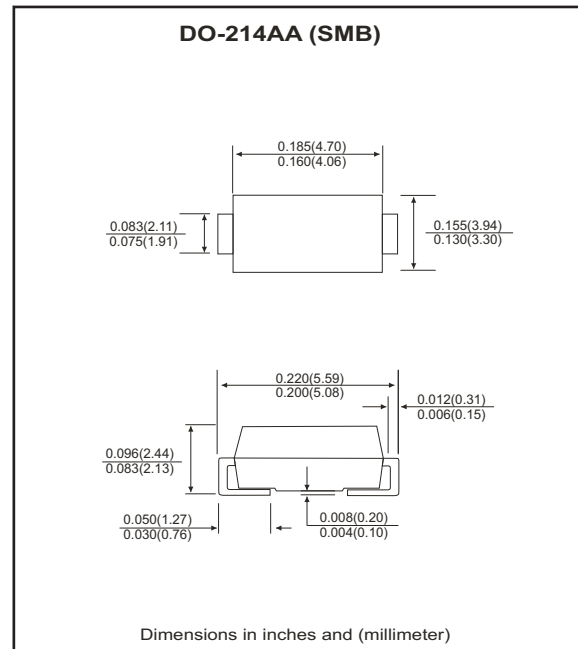


## Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Super fast recovery time for high efficient.
- 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           | CEFB201-G   | CEFB202-G | CEFB203-G | CEFB204-G | CEFB205-G | Units |
|------------------------------------------------------------------------------------------------------|------------------|-------------|-----------|-----------|-----------|-----------|-------|
| Max. repetitive peak reverse voltage                                                                 | V <sub>RRM</sub> | 50          | 100       | 200       | 400       | 600       | V     |
| Max. DC blocking voltage                                                                             | V <sub>DC</sub>  | 50          | 100       | 200       | 400       | 600       | V     |
| Max. RMS voltage                                                                                     | V <sub>RMS</sub> | 35          | 70        | 140       | 280       | 420       | V     |
| Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)     | I <sub>FSM</sub> | 35          |           |           | 45        |           | A     |
| Max. average forward current                                                                         | I <sub>O</sub>   | 2.0         |           |           |           |           | A     |
| Max. instantaneous forward voltage at 2.0A                                                           | V <sub>F</sub>   | 0.875       |           |           | 1.1       | 1.25      | V     |
| Reverse recovery time                                                                                | T <sub>rr</sub>  | 25          |           |           | 35        | 50        | nS    |
| Max. DC reverse current at T <sub>A</sub> =25 °C<br>rated DC blocking voltage T <sub>A</sub> =100 °C | I <sub>R</sub>   | 5.0<br>250  |           |           |           |           | μA    |
| Max. thermal resistance (Note 1)                                                                     | R <sub>θJL</sub> | 15          |           |           |           |           | °C/W  |
| Max. operating junction temperature                                                                  | T <sub>J</sub>   | 150         |           |           |           |           | °C    |
| Storage temperature                                                                                  | T <sub>STG</sub> | -55 to +150 |           |           |           |           | °C    |

Notes: 1. Thermal resistance from junction to lead mounted on P.C.B. with 8.0×8.0 mm copper pad area.

## RATING AND CHARACTERISTIC CURVES (CEFB201-G thru CEFB205-G)

Fig.1 Reverse Characteristics

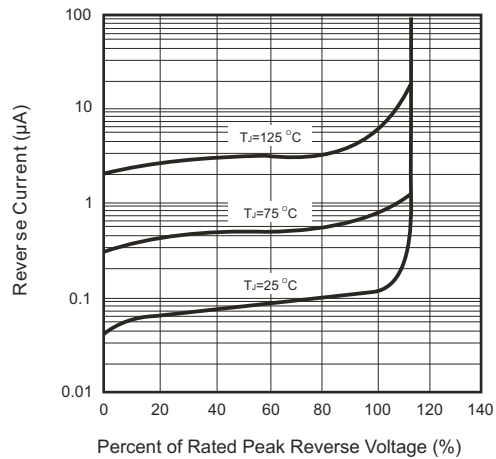


Fig.2 Forward Characteristics

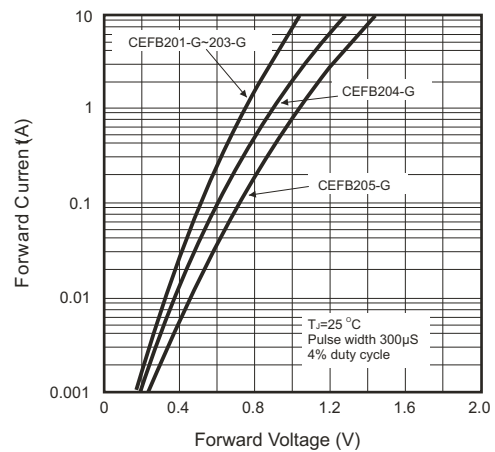


Fig.3 Junction Capacitance

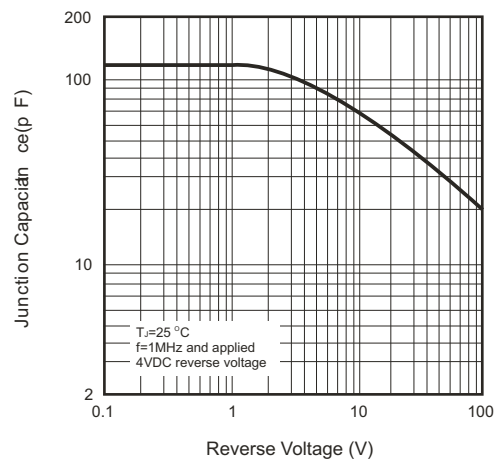


Fig.4 Non-repetitive Forward Surge Current

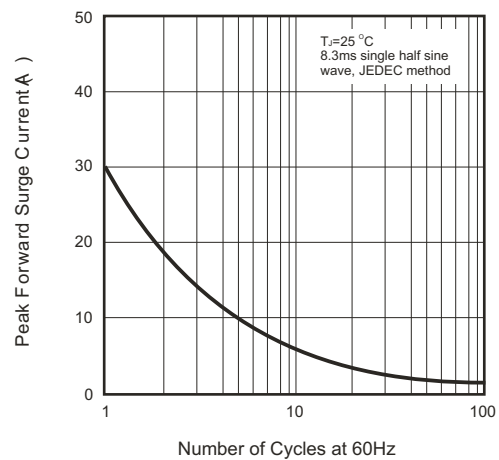


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

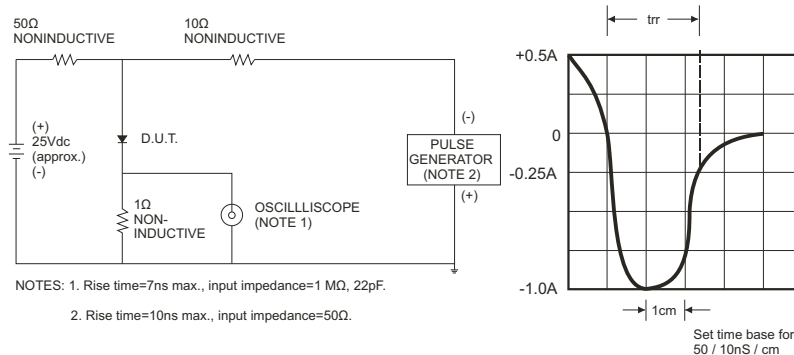
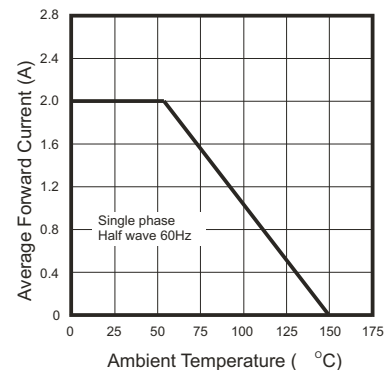


Fig.6 Current Derating Curve



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