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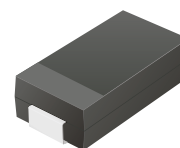
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## SMD Efficient Fast Recovery Rectifiers



# CEFB201-G Thru. CEFB205-G

Reverse Voltage: 50 to 600 Volts  
 Forward Current: 2.0 Amp  
 RoHS Device

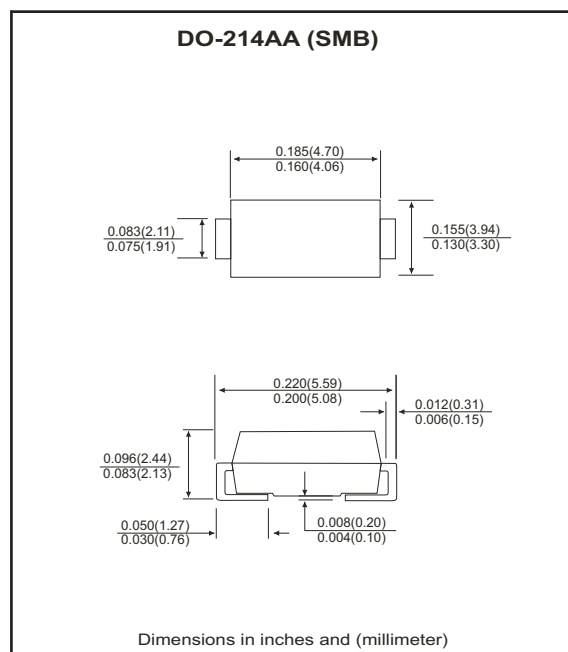


### Features

- 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   | $V_{RRM}$       | 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, 8.3ms single half sine-wave superimposed on rate load (JEDEC method) | $I_{FSM}$       | 35          |           |           | 45        |           | A             |
| Max. average forward current   | $I_o$           | 2.0         |           |           |           |           | A             |
| Max. instantaneous forward voltage at 2.0A   | $V_F$           | 0.875       |           |           | 1.1       | 1.25      | V             |
| Reverse recovery time  | $T_{rr}$        | 25          |           |           | 35        | 50        | nS            |
| Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=100^{\circ}C$        | $I_R$           | 5.0         |           |           | 250       |           | $\mu A$       |
| Max. thermal resistance (Note 1)   | $R_{\theta JL}$ | 15          |           |           |           |           | $^{\circ}C/W$ |
| Max. operating junction temperature  | $T_J$           | 150         |           |           |           |           | $^{\circ}C$   |
| Storage temperature  | $T_{STG}$       | -55 to +150 |           |           |           |           | $^{\circ}C$   |

Notes: 1. Thermal resistance from junction to lead mounted on P.C.B. with 8.0x8.0 mm copper pad area.

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

Fig.1 Reverse Characteristics

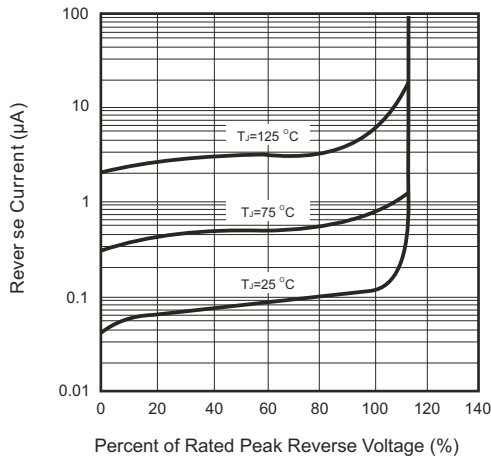


Fig.2 Forward Characteristics

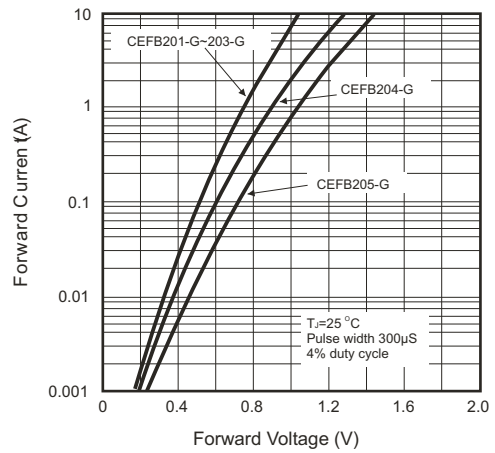


Fig.3 Junction Capacitance

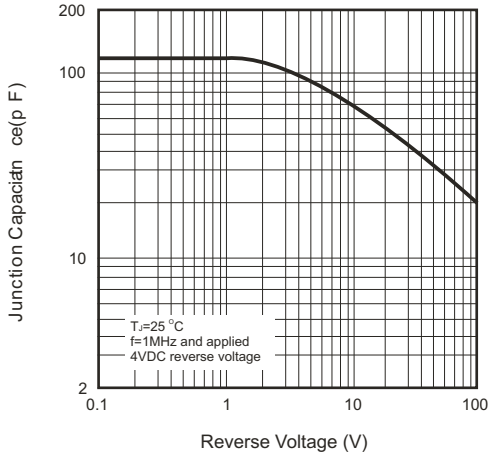


Fig.4 Non-repetitive Forward Surge Current

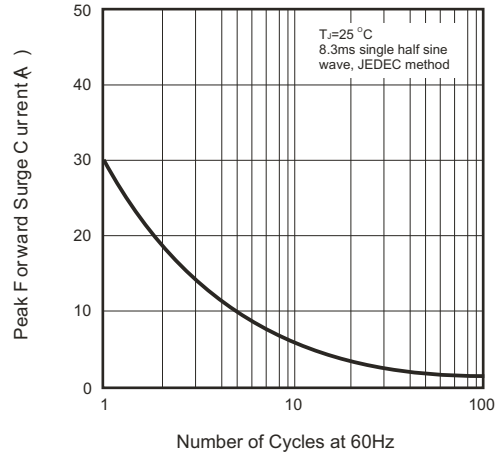


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

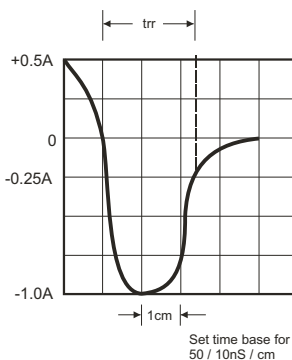
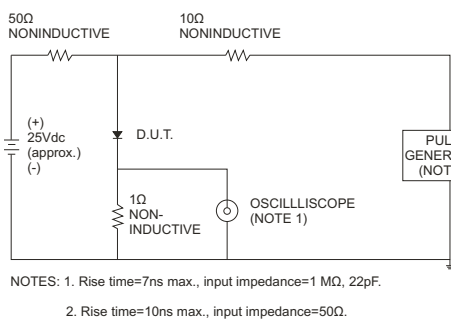


Fig.6 Current Derating Curve

