

# SMD Efficient Fast Recovery Rectifier

[查询"CEFB201-G"供应商](#)

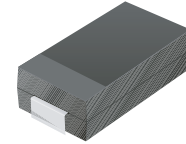
**COMCHIP**  
SMD DIODE SPECIALIST



## CEFB201-G Thru CEFB205-G (RoHS Device)

**Reverse Voltage: 50 ~ 600 Volts**

**Forward Current: 2.0 Amp**

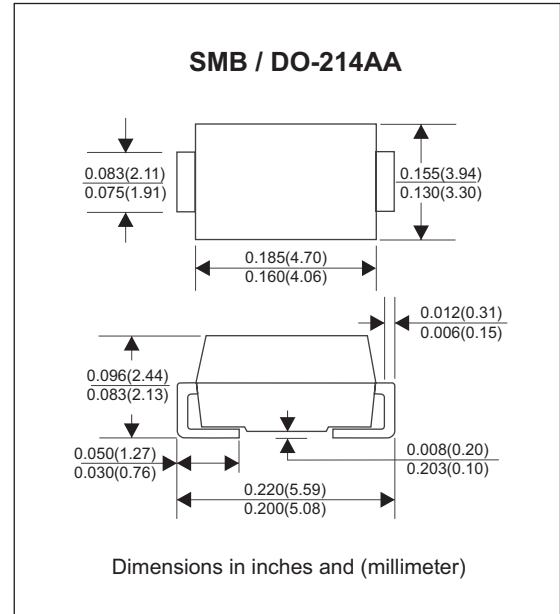


### Features:

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- 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: 0.063 gram



### Maximum Ratings and Electrical Characteristics:

| Parameter                                                                                                | Symbol           | CEFB201-G   | CEFB202-G | CEFB203-G | CEFB204-G | CEFB205-G | Unit |
|----------------------------------------------------------------------------------------------------------|------------------|-------------|-----------|-----------|-----------|-----------|------|
| 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<br>8.3ms single half sine-wave<br>superimposed on rate load<br>(JEDEC method) | I <sub>FSM</sub> | 30          |           |           | 45        |           | A    |
| Max. Average Forward Current                                                                             | I <sub>o</sub>   | 2.0         |           |           |           |           | A    |
| Max. Instantaneous Forward Voltage<br>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 Rated DC<br>Blocking Voltage<br>Ta=25°C<br>Ta=100°C                           | I <sub>R</sub>   | 5.0<br>200  |           |           |           |           | uA   |
| Max. Thermal Resistance (Note1)                                                                          | 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   |

Note1: Thermal resistance from junction to lead mounted on PCB with 8.0mmx8.0mm<sup>2</sup> copper pad areas.



## Rating and Characteristic Curves (CEFB201-G Thru CEFB205-G)

Fig. 1 Reverse Characteristics

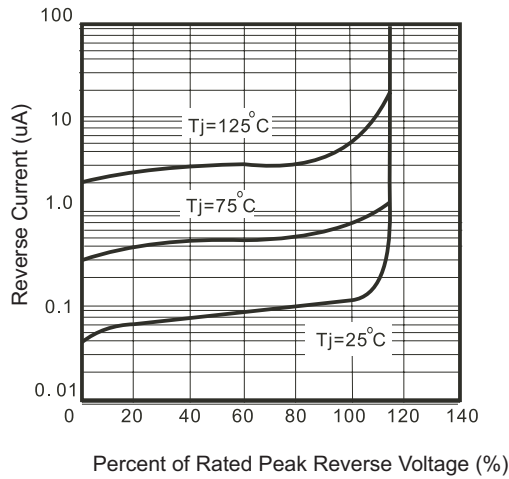


Fig.2 Forward Characteristics

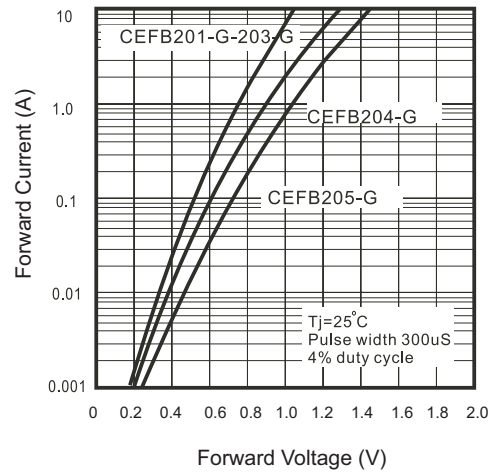


Fig. 3 - Junction Capacitance

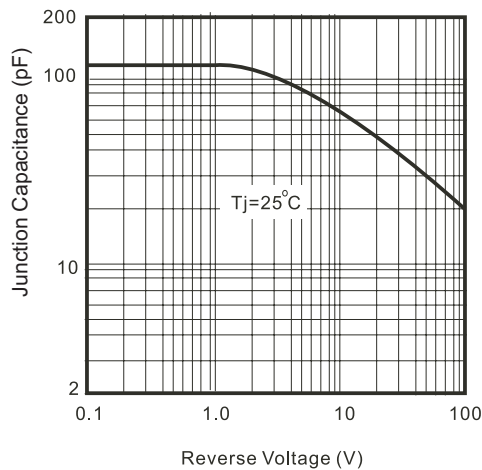


Fig.4 - Non Repetitive Forward Surge Curve

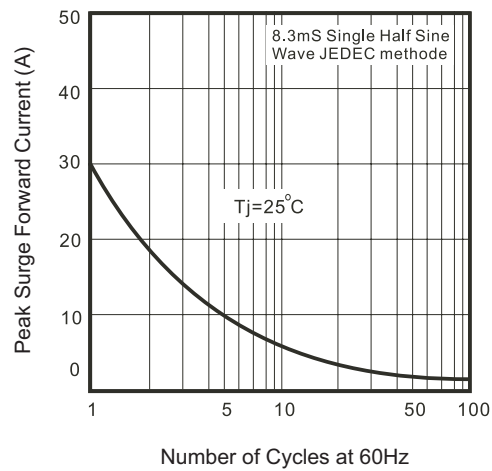
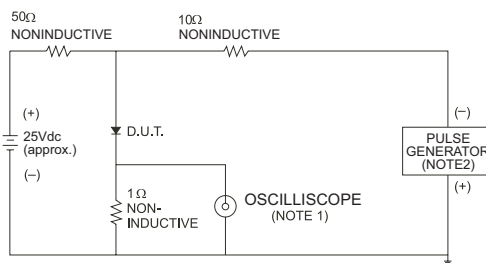


Fig.5 - Test Circuit Diagram and Reverse Recovery Time Characteristics



NOTES: 1. Rise Times = 7ns max., Input Impedance = 1 megohm.22pF.  
2. Rise Time = 10ns max., Source Impedance = 50 ohms.

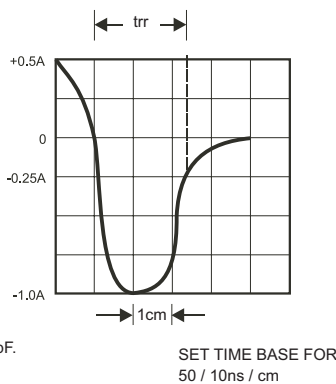


Fig. 6 - Current Derating Curve

