



SMD Efficient Fast Recovery Rectifier

CEFB201-G Thru CEFB205-G (RoHS Device)

Reverse Voltage: 50 ~ 600 Volts

Forward Current: 2.0 Amp

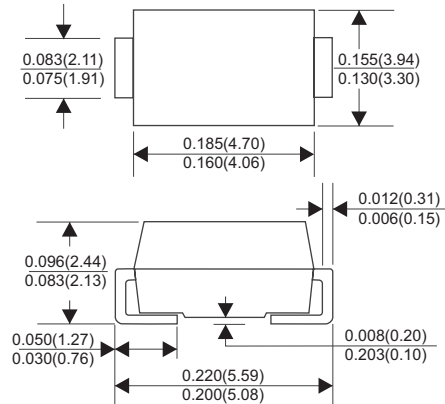
Features:

- 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

SMB / DO-214AA



Maximum Ratings and Electrical Characteristics:

Parameter	Symbol	CEFB201-G	CEFB202-G	CEFB203-G	CEFB204-G	CEFB205-G	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 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}	30			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 Rated DC Blocking Voltage Ta=25°C Ta=100°C	I _R	5.0 200					uA
Max. Thermal Resistance (Note1)	R _{θJL}	15					°C/W
Max. Operating Junction Temperature	T _j	150					°C
Storage Temperature	T _{STG}	-55 to +150					°C

Note1: Thermal resistance from junction to lead mounted on PCB with 8.0mmx8.0mm² copper pad areas.

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

Fig. 1 Reverse Characteristics

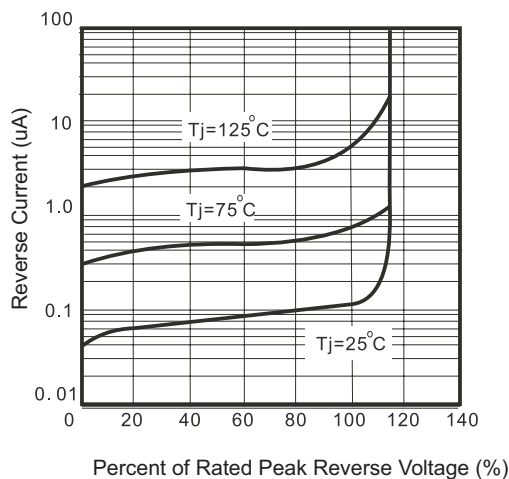


Fig.2 Forward Characteristics

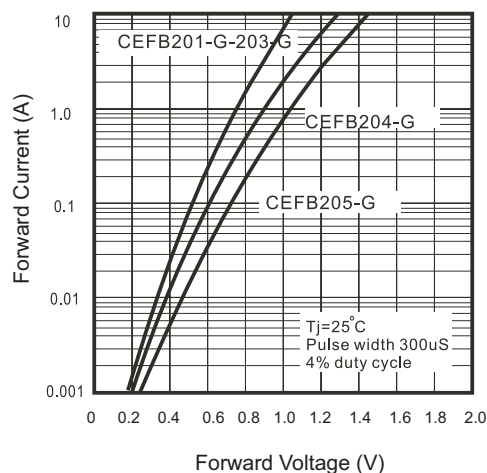


Fig. 3 - Junction Capacitance

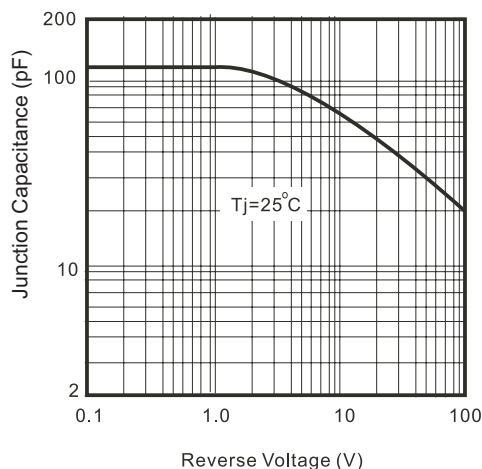


Fig.4 - Non Repetitive Forward Surge Curve

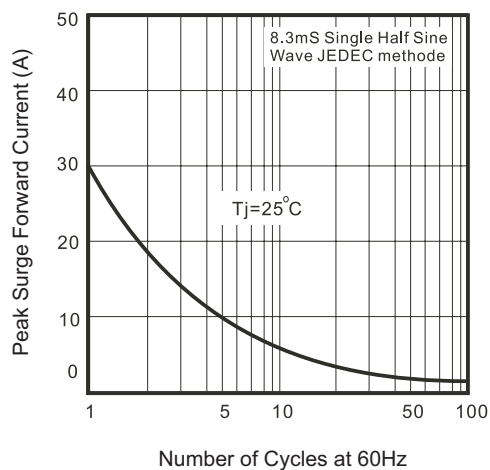
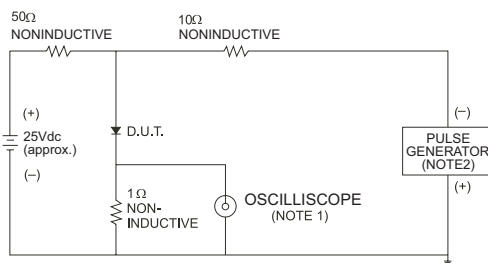


Fig.5 - Test Circuit Diagram and Reverse Recovery Time Characteristics



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

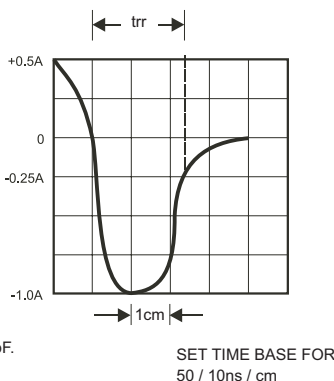


Fig. 6 - Current Derating Curve

