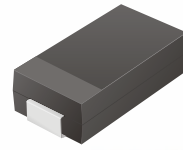


# SMD Efficient Fast Recovery Rectifier



## CEFB201 Thru CEFB205

Reverse Voltage: 50 - 600 Volts  
Forward Current: 2.0 Amp

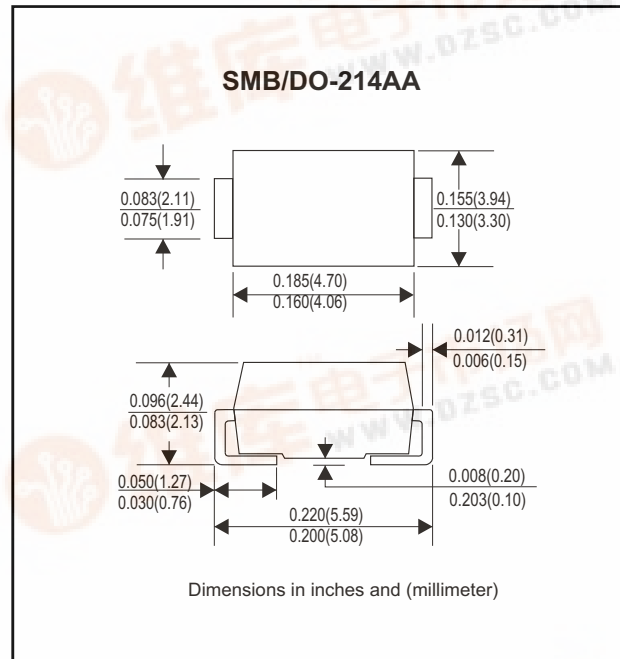


### Features

- 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
- Mounting position: Any
- Approx. Weight: 0.093 gram



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CEFB 201	CEFB 202	CEFB 203	CEFB 204	CEFB 205	Unit
Max. Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	V
Max. DC Blocking Voltage	VDC	50	100	200	400	600	V
Max. RMS Voltage	VRMS	35	70	140	280	420	V
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rate load ( JEDEC method )	IFSM	40			35		A
Max. Average Forward Current	Io	2.0					A
Max. Instantaneous Forward Current at 2.0 A	VF	0.875			1.1	1.25	V
Reverse recovery time	Trr	25			35	50	nS
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=100°C	IR	5.0 250					uA
Max. Thermal Resistance (Note 1)	RθJL	15					°C/W
Operating Junction Temperature	Tj	-55 to +150					°C
Storage Temperature	TSTG	-55 to +150					°C



Note 1: Thermal resistance from junction to lead P.C.B. Mounted on 8.0x8.0 mm copper pad areas.

## Rating and Characteristic Curves (CEFB201 Thru CEFB205)

Fig. 1 - Reverse Characteristics

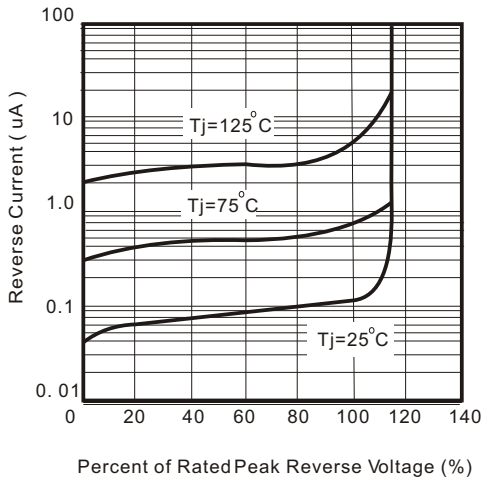


Fig.2 - Forward Characteristics

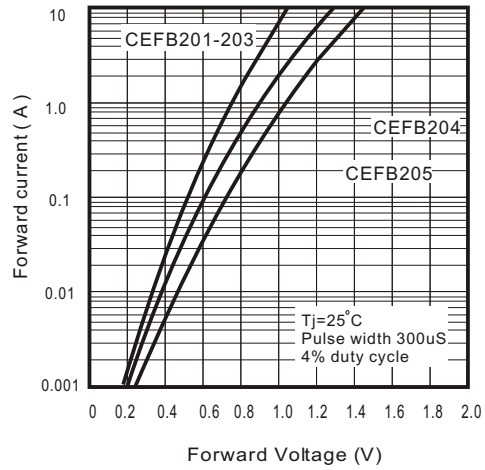


Fig. 3 - Junction Capacitance

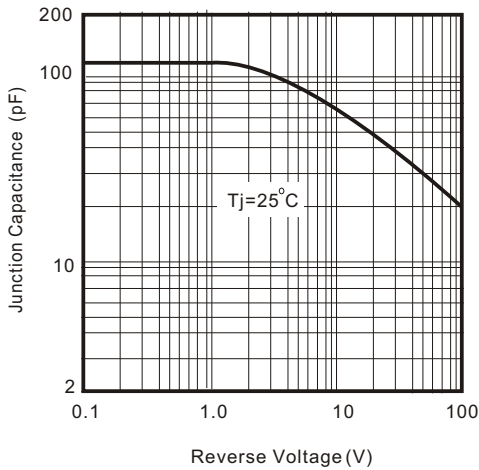


Fig. 4 - Non Repetitive Forward Surge Current

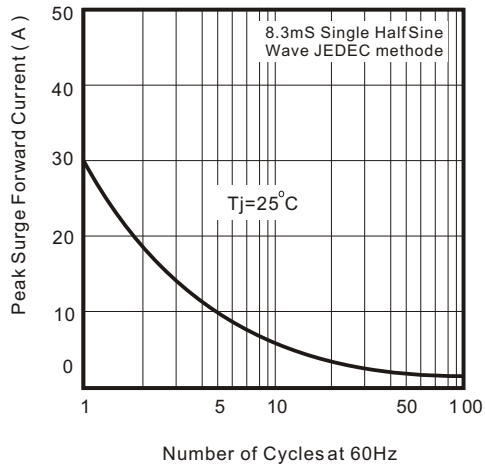


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics

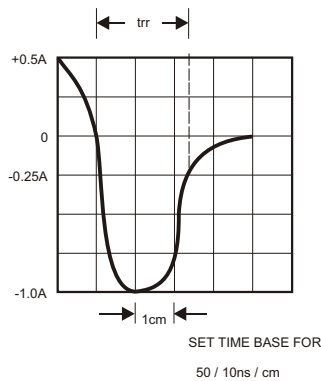
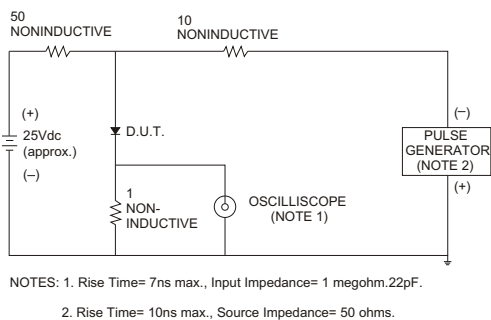


Fig. 6 - Current Derating Curve

