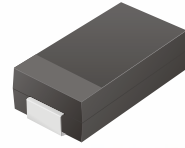


SMD Efficient Fast Recovery Rectifier



CEFB101 Thru CEFB105

Reverse Voltage: 50 - 600 Volts
Forward Current: 1.0 Amp

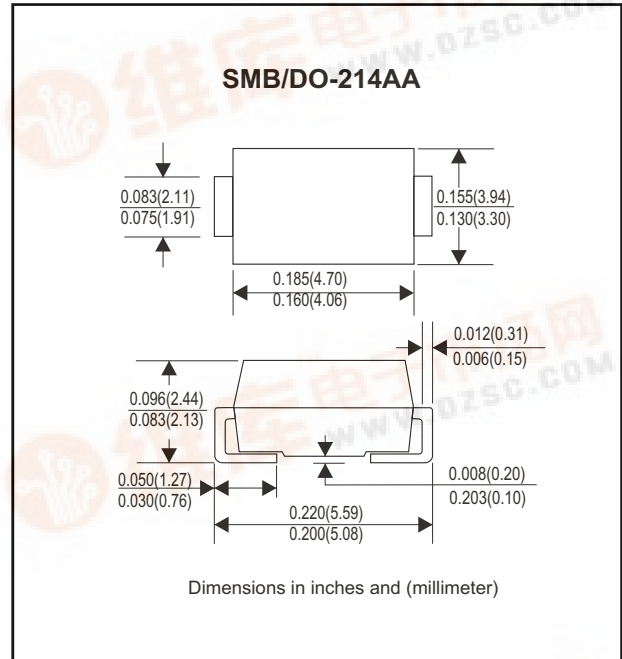


Features

- 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 101	CEFB 102	CEFB 103	CEFB 104	CEFB 105	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	30						A
Max. Average Forward Current	Io	1.0						A
Max. Instantaneous Forward Current at 1.0 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	13						°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 (CEFB101 Thru CEFB105)

Fig. 1 - Reverse Characteristics

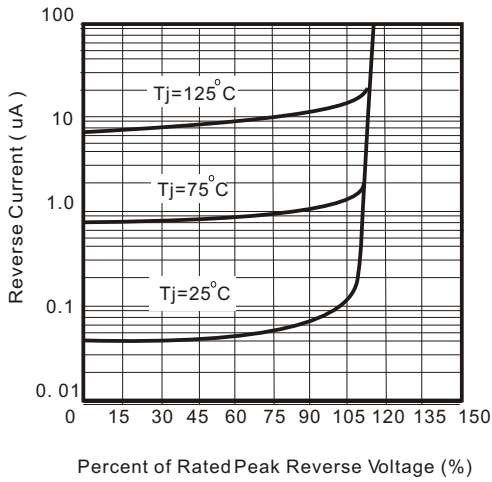


Fig.2 - Forward Characteristics

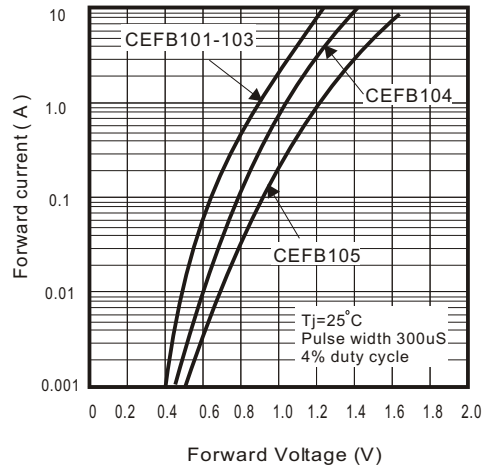


Fig. 3 - Junction Capacitance

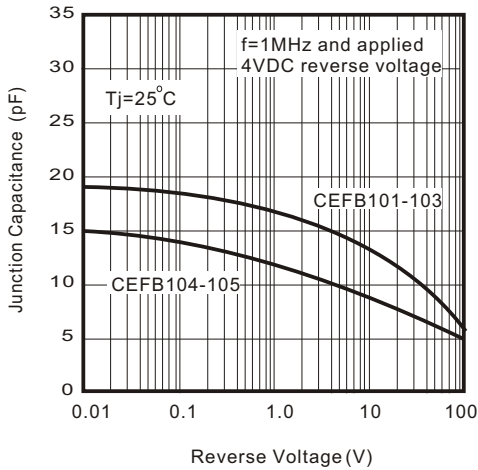


Fig. 4 - Non Repetitive Forward Surge Current

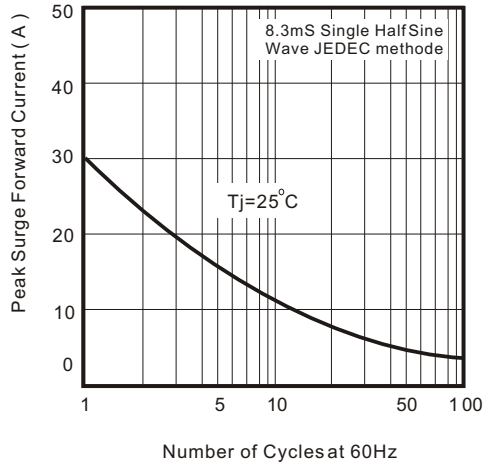


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics

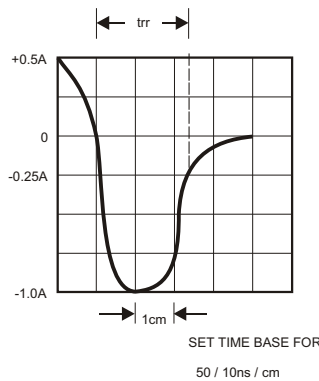
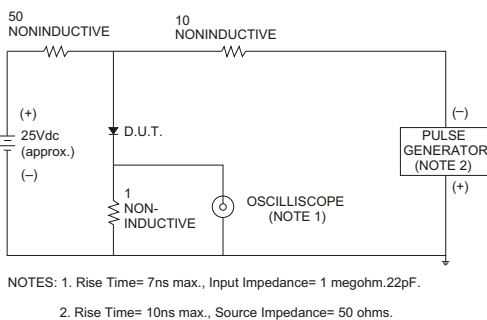


Fig. 6 - Current Derating Curve

