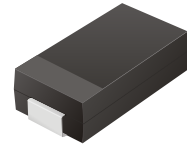


CEFA101 Thru CEFA105

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

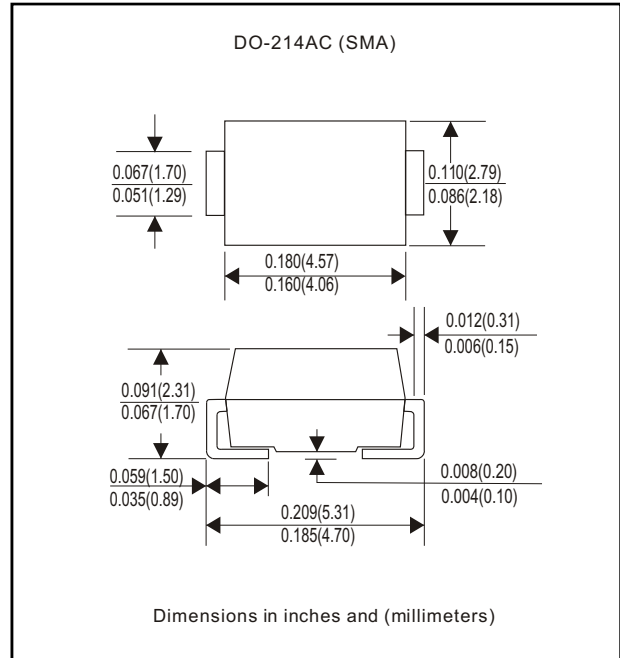


Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Built-in strain relief
- High surge current capability

Mechanical data

- Case: JEDEC DO-214AC molded plastic
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Approx. Weight: 0.063 gram



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CEFB 101	CEFB 102	CEFB 103	CEFB 104	CEFB 105	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 rated load (JEDEC method)	I _{FSM}	40			35		A
Max. Average Forward Current	I _o	1.0					A
Max. Instantaneous Forward Current at 1.0 A	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 T _a = 25°C T _a =125°C	I _R	5 250					uA
Max. Thermal Resistance (Note 1)	R _{θJL}	25					°C/W
Operating Junction Temperature	T _j	-155 to +155					°C
Storage Temperature	T _{STG}	-155 to +125					°C

Note 1: Thermal resistance from junction to lead, 8.0mmsquare (0.13mm thick) land areas.

Rating and Characteristic Curves (CEFA101 Thru CEFA105)

Fig. 1 - Reverse characteristics

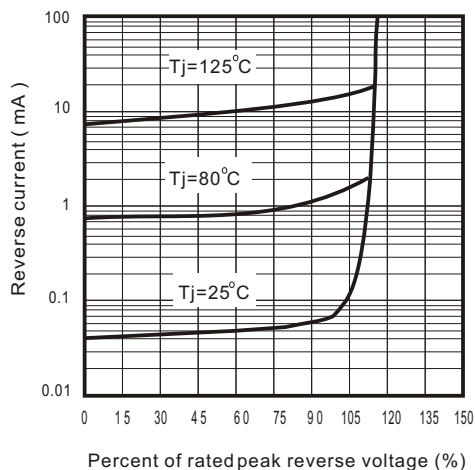


Fig.2 - Forward characteristics

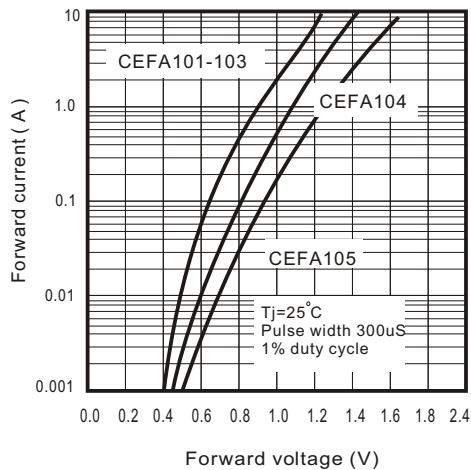


Fig. 3 - Junction capacitance

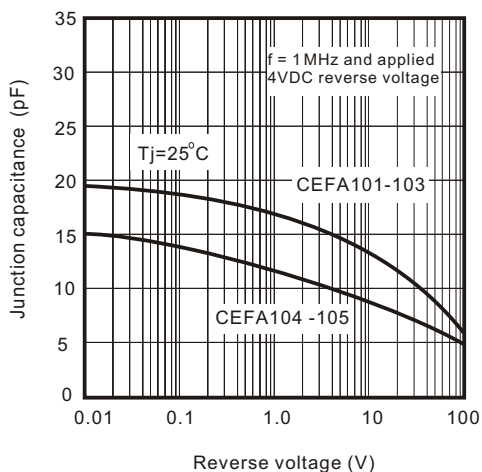


Fig. 4 - Non repetitive forward surge current

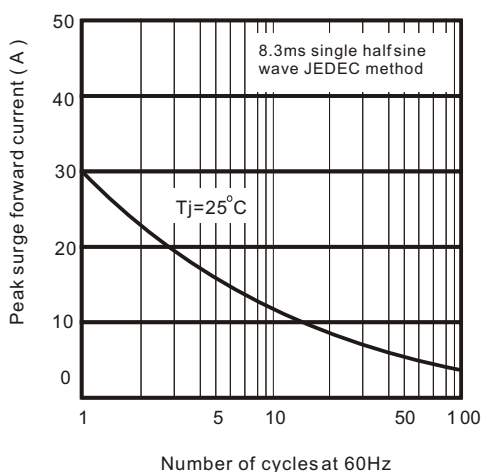


Fig. 5 - Test circuit diagram and Reverse recovery time characteristics

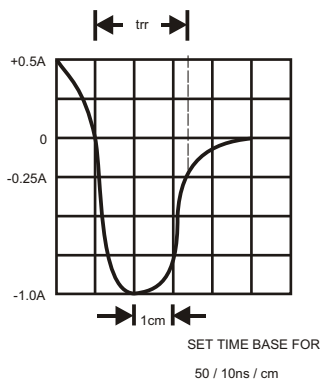
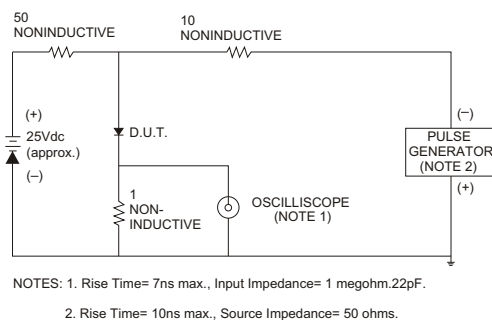


Fig. 6 - Current derating curve

