

## CFRB201-G Thru. CFRB207-G

**Reverse Voltage: 50 to 1000 Volts**

**Forward Current: 2.0 Amp**

**RoHS Device**

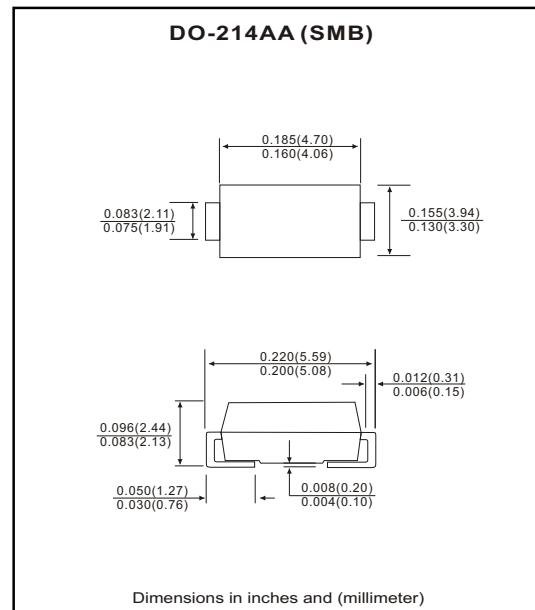


### Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Fast recovery time: 150~500nS.
- Low leakage current.

### Mechanical data

- Case: JEDEC DO-214AA, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.093 grams



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CFRB 201-G	CFRB 202-G	CFRB 203-G	CFRB 204-G	CFRB 205-G	CFRB 206-G	CFRB 207-G	Units
Max. repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Max. DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Max. RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I <sub>FSM</sub>				50				A
Max. average forward current	I <sub>o</sub>				2.0				A
Max. instantaneous forward voltage at 2.0A	V <sub>F</sub>				1.3				V
Reverse recovery time	T <sub>rr</sub>			150		250	500		nS
Max. DC reverse current at T <sub>A</sub> =25°C rated DC blocking voltage T <sub>A</sub> =125°C	I <sub>R</sub>			5.0	50				µA
Max. thermal resistance (Note 1)	R <sub>θJL</sub>			20					°C/W
Max. operating junction temperature	T <sub>J</sub>			150					°C
Storage temperature	T <sub>STG</sub>			-55 to +150					°C

Notes: 1. Thermal resistance from junction to lead mounted on P.C.B. with 8.0×8.0 mm<sup>2</sup> square (0.13mm thick) land area.

# SMD Fast Recovery Rectifiers

**COMCHIP**  
SMD Diodes Specialist

## RATING AND CHARACTERISTIC CURVES (CFRB201-G thru CFRB207-G)

Fig.1 Reverse Characteristics

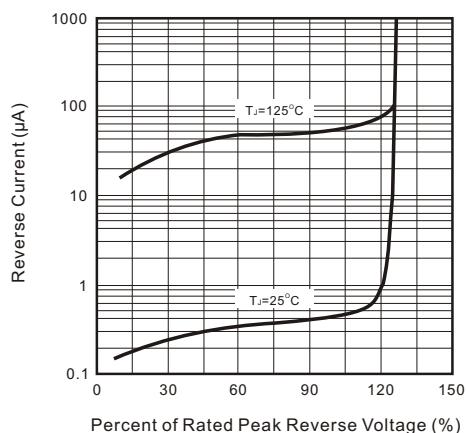


Fig.2 Forward Characteristics

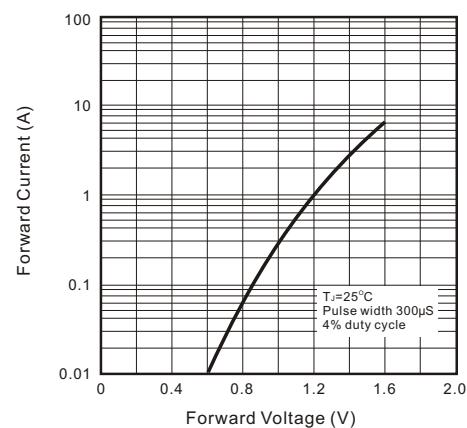


Fig.3 Junction Capacitance

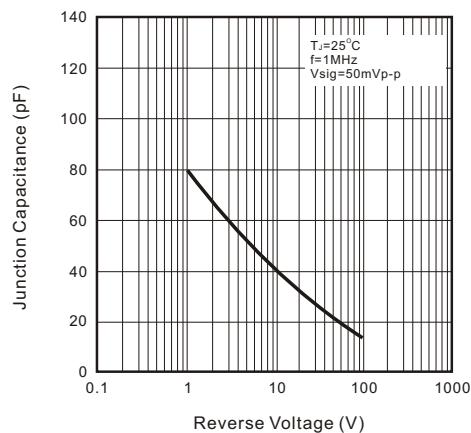


Fig.4 Non-repetitive Forward Surge Current

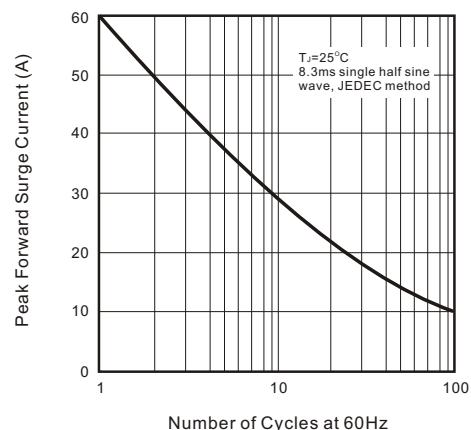


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

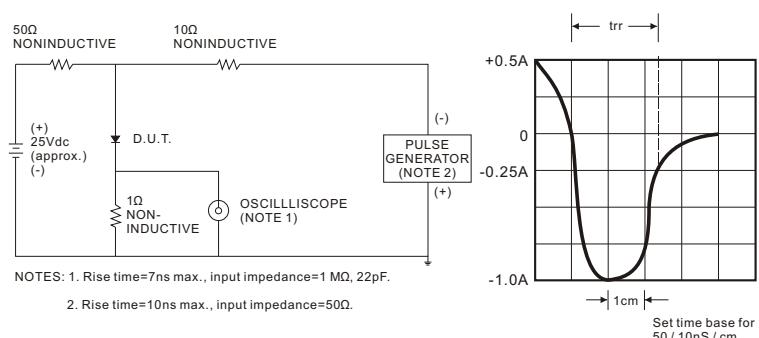


Fig.6 Current Derating Curve

