



THE DATASHEET OF CFRB205-G

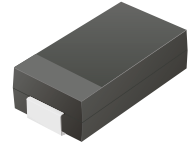


CFRB201-G Thru. CFRB207-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 2.0 Amp

RoHS Device

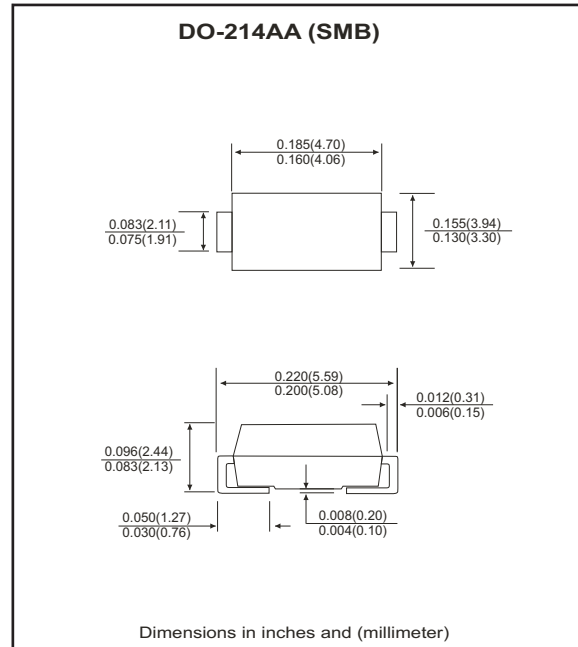


Features

- 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_{RRM}	50	100	200	400	600	800	1000	V
Max. DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Max. RMS voltage	V_{RMS}	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_{FSM}	50							A
Max. average forward current	I_o	2.0							A
Max. instantaneous forward voltage at 2.0A	V_F	1.3							V
Reverse recovery time	T_{rr}	150				250	500		nS
Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=125^{\circ}C$	I_R	5.0					50		μA
Max. thermal resistance (Note 1)	$R_{\theta JL}$	20					$^{\circ}C/W$		
Max. operating junction temperature	T_J	150							$^{\circ}C$
Storage temperature	T_{STG}	-55 to +150							$^{\circ}C$

Notes: 1. Thermal resistance from junction to lead mounted on P.C.B. with 8.0x8.0 mm square² (0.13mm thick) land area.

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

Fig.1 Reverse Characteristics

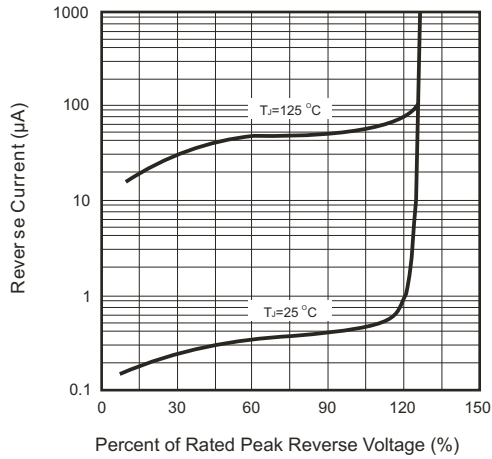


Fig.2 Forward Characteristics

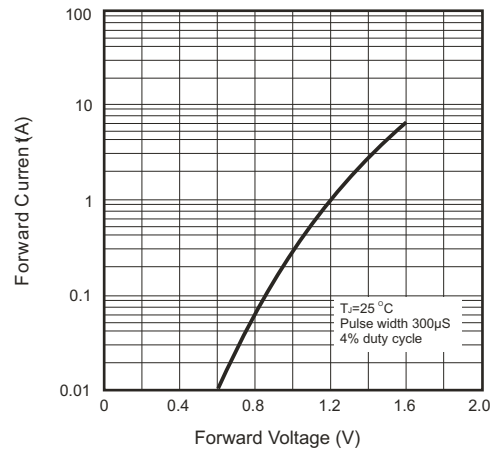


Fig.3 Junction Capacitance

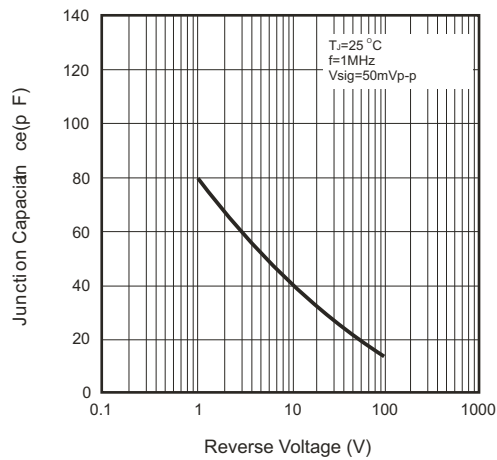


Fig.4 Non-repetitive Forward Surge Current

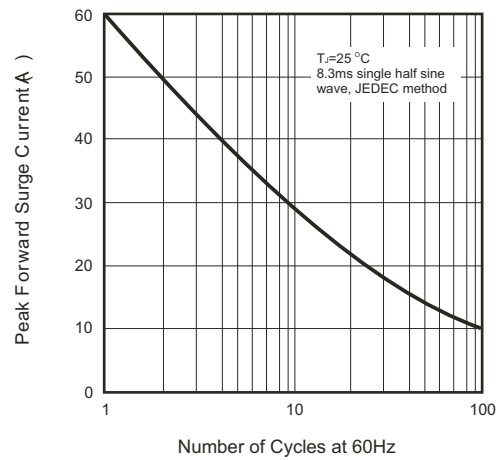


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

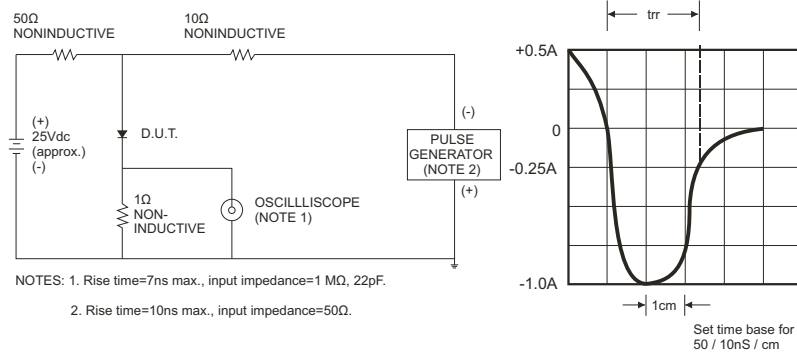
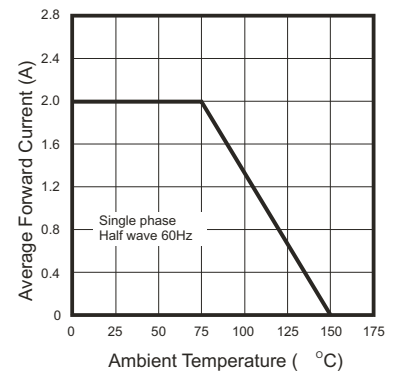


Fig.6 Current Derating Curve



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