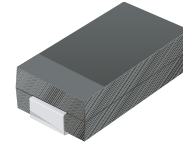


SMD Efficient Fast Recovery Rectifier

CFRB201-G Thru CFRB207-G (RoHS Device)

Reverse Voltage: 50 ~ 1000 Volts

Forward Current: 2.0 Amp

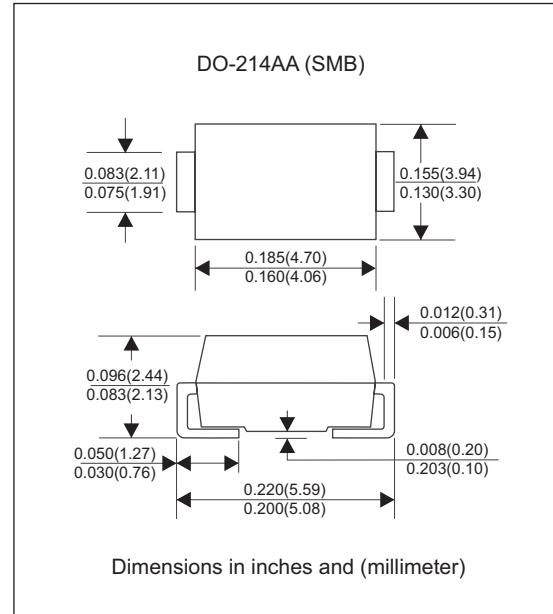


Features:

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- 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
- Mounting position: Any
- Approx. Weight: 0.093 gram



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	Unit	
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}	60								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}	100				250	500		nS	
Max. DC Reverse Current at Rated DC Blocking Voltage $T_a=25^{\circ}C$ $T_a=100^{\circ}C$	I_R	5.0 50							uA	
Max. Thermal Resistance (Note1)	$R_{\theta JL}$	20							$^{\circ}C/W$	
Max. Operating Junction Temperature	T_j	-55 to +150							$^{\circ}C$	
Storage Temperature	T_{STG}	-55 to +150							$^{\circ}C$	

Note1: Thermal resistance from junction to ambient.



Rating and Characteristic Curves (CFRB201-G Thru CFRB207-G)

Fig.1 - Reverse Characteristics

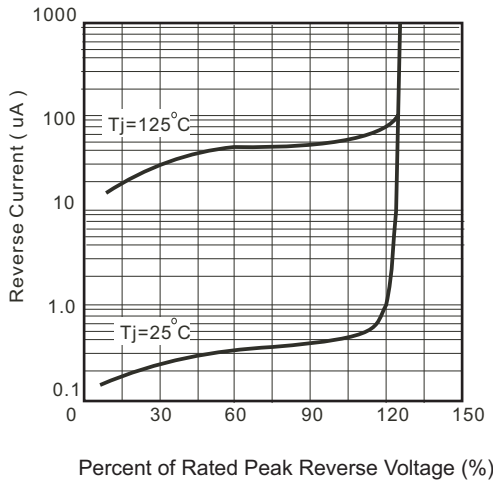


Fig.2 - Forward Characteristics

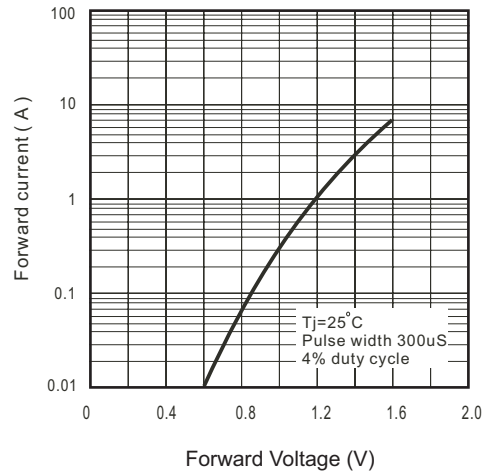


Fig. 3 - Junction Capacitance

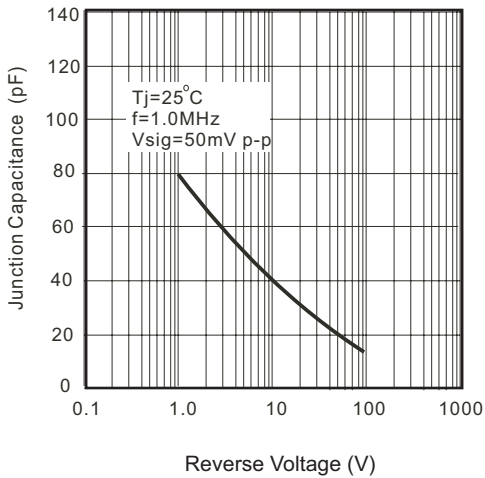


Fig. 5 - Non Repetitive Forward Surge Current

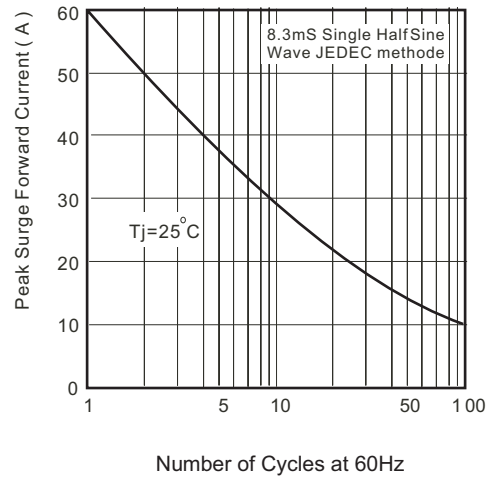
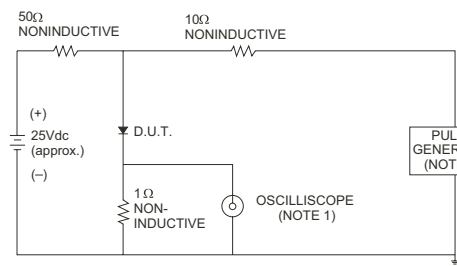


Fig. 5 - Test Circuit Diagram and Reverse Recovery Time Characteristics



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm.22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

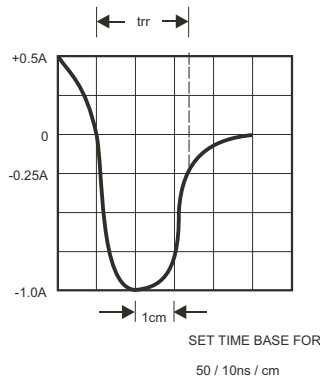


Fig. 6 - Current Derating Curve

