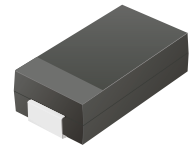


CFRC301-G Thru. CFRC307-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 3.0 Amp

RoHS Device

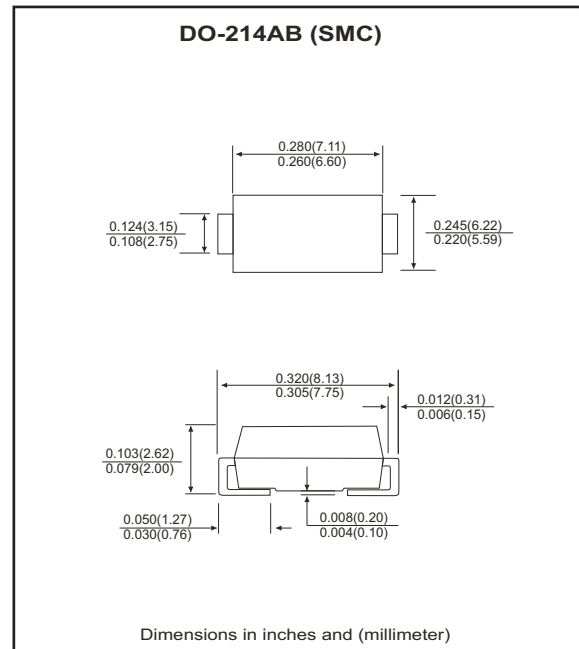


Features

- 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-214AB, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.21 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CFRC 301-G	CFRC 302-G	CFRC 303-G	CFRC 304-G	CFRC 305-G	CFRC 306-G	CFRC 307-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}	100							A
Max. average forward current	I _O	3.0							A
Max. instantaneous forward voltage at 3.0A	V _F	1.3							V
Reverse recovery time	T _{rr}	150				250	500		nS
Max. DC reverse current at T _A =25 °C rated DC blocking voltage T _A =125 °C	I _R	5.0 250							μA
Max. thermal resistance (Note 1)	R _{θJA}	50							°C/W
Max. operating junction temperature	T _J	150							°C
Storage temperature	T _{STG}	-55 to +150							°C

Notes: 1. Thermal resistance from junction to lead mounted on P.C.B. with 8.0×8.0 mm square land area.

RATING AND CHARACTERISTIC CURVES (CFRC301-G thru CFRC307-G)

Fig.1 Reverse Characteristics

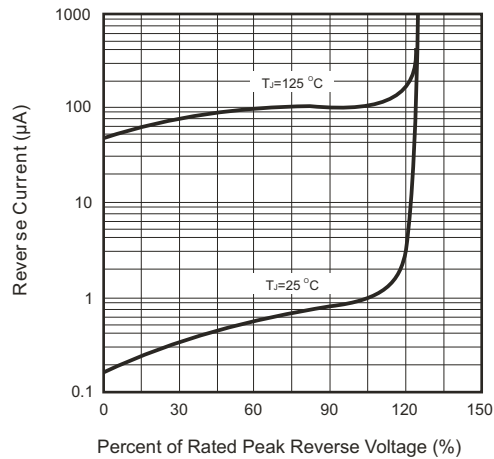


Fig.2 Forward Characteristics

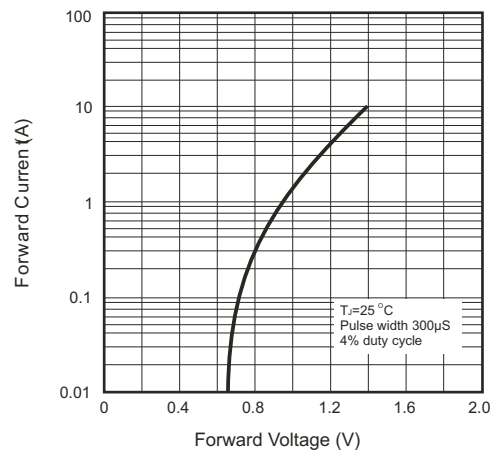


Fig.3 Junction Capacitance

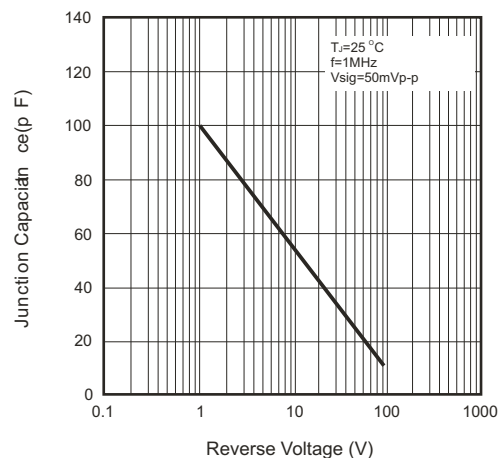


Fig.4 Non-repetitive Forward Surge Current

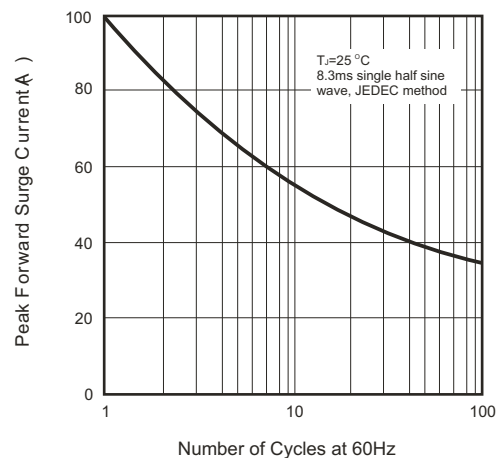


Fig.5 Test Circuit Diagram and Reverse Recovery Time Characteristics

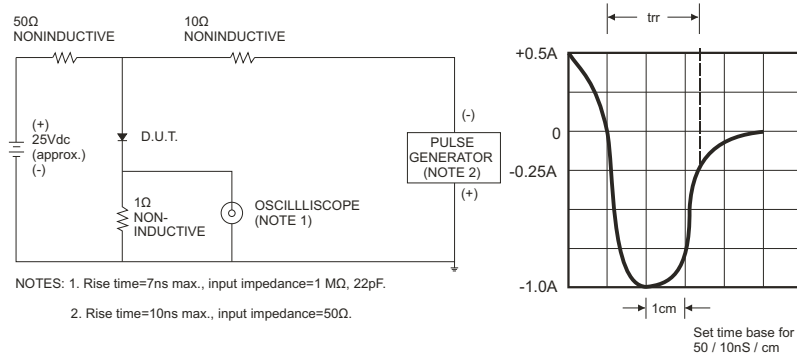
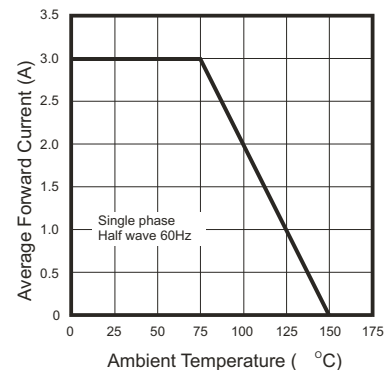


Fig.6 Current Derating Curve



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