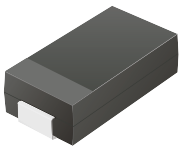
CGRC501-G Thru. CGRC507-G

Glass Passivated Type
Reverse Voltage: 50 to 1000 Volts
Forward Current: 5.0 Amp
RoHS Device



Features

-Ideal for surface mount applications.

-Easy pick and place.

-Plastic package has Underwriters Lab. flammability classification 94V-0.

-Built in strain relief.

-Low forward voltage drop.

Mechanical data

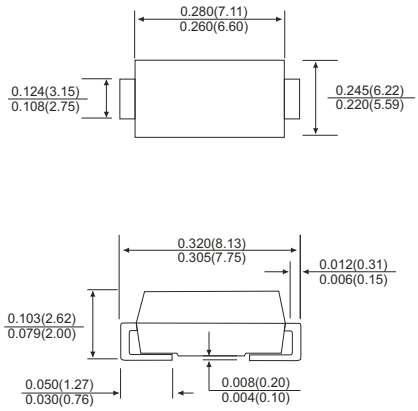
-Case: JEDEC DO-214AB, molded plastic.

-Terminals: solderable per MIL-STD-750, method 2026.

-Polarity: Color band denotes cathode end.

-Approx. weight: 0.21 grams

DO-214AB (SMC)



Dimensions in inches and (millimeter)

Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CGRC 501-G	CGRC 502-G	CGRC 503-G	CGRC 504-G	CGRC 505-G	CGRC 506-G	CGRC 507-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	5.0							A
Max. instantaneous forward voltage at 5.0A	V_F	1.15							V
Max. DC reverse current at T_A=25 °C rated DC blocking voltage T_A=125 °C	I_R	10 250							μA
Max. thermal resistance (Note 1)	$R_{\theta JA}$	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 terminal mounted on P.C.B. with 5.0×5.0 mm square^2(0.13mm thick) land area.

RATING AND CHARACTERISTIC CURVES (CGRC501-G thru CGRC507-G)

Fig.1 Reverse Characteristics

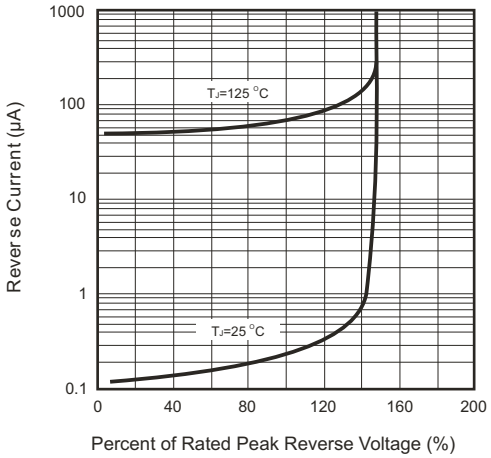


Fig.2 Forward Characteristics

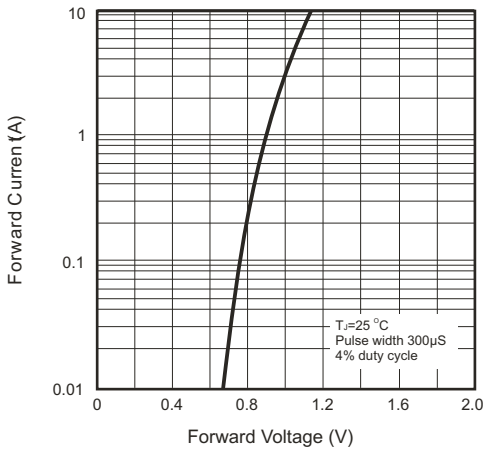


Fig.3 Non-repetitive Forward Surge Current

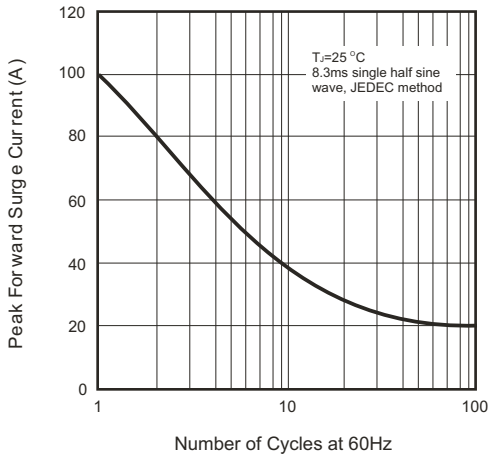


Fig.4 Current Derating Curve