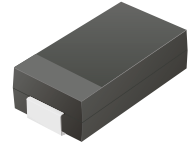


## CGRC501-G Thru. CGRC507-G

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

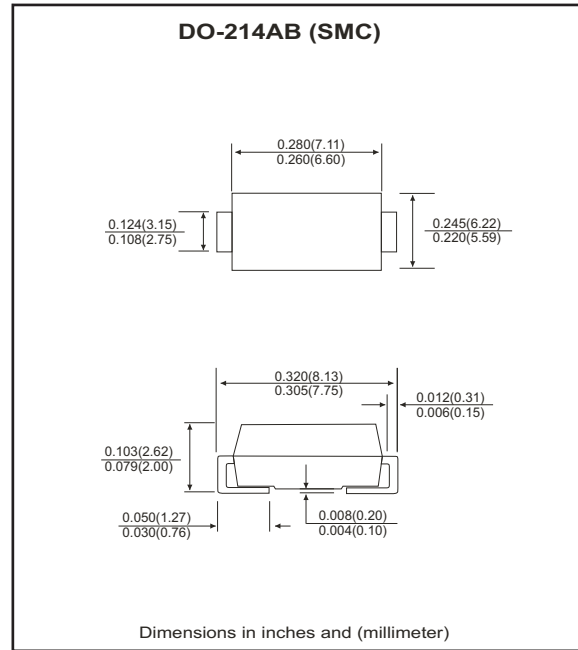


### Features

- 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



### 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 <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>	100							A
Max. average forward current	I <sub>o</sub>	5.0							A
Max. instantaneous forward voltage at 5.0A	V <sub>F</sub>	1.15							V
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>	10 250							μA
Max. thermal resistance (Note 1)	R <sub>θJA</sub>	50							°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 terminal mounted on P.C.B. with 5.0×5.0 mm square<sup>2</sup>(0.13mm thick) land area.

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

Fig.1 Reverse Characteristics

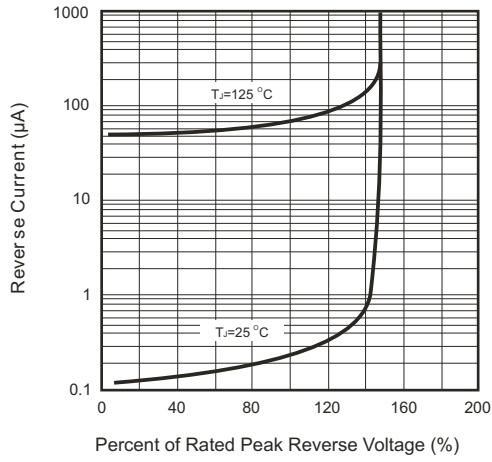


Fig.2 Forward Characteristics

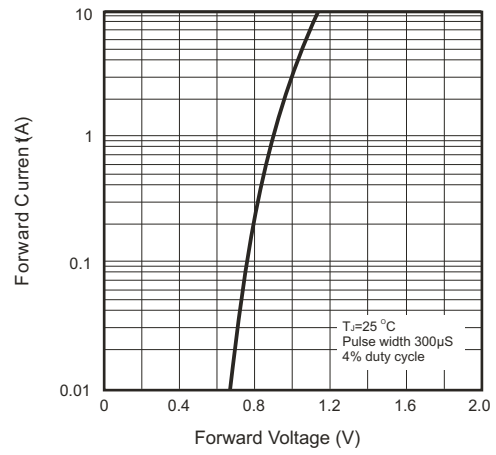


Fig.3 Non-repetitive Forward Surge Current

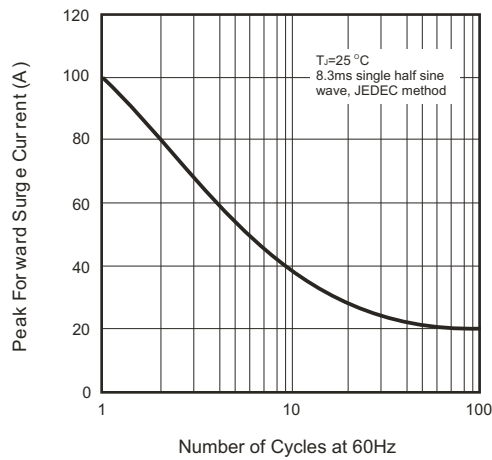


Fig.4 Current Derating Curve

