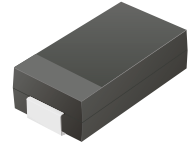


## CGRB301-G Thru. CGRB307-G

**Glass Passivated Type**  
**Reverse Voltage: 50 to 1000 Volts**  
**Forward Current: 2.0 Amp**  
**RoHS Device**

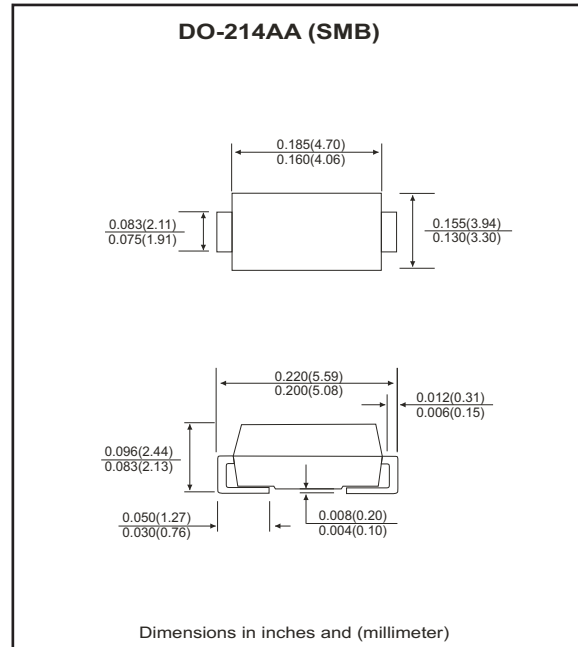


### Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Built in strain relief.
- High surge current capability.

### 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	CGRB 301-G	CGRB 302-G	CGRB 303-G	CGRB 304-G	CGRB 305-G	CGRB 306-G	CGRB 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	$V_F$	1.1							V
Max. DC reverse current at $T_A=25\text{ }^{\circ}\text{C}$ rated DC blocking voltage $T_A=125\text{ }^{\circ}\text{C}$	$I_R$	5.0 150							$\mu\text{A}$
Max. thermal resistance (Note 1)	$R_{\theta JA}$	50							$^{\circ}\text{C/W}$
Max. operating junction temperature	$T_J$	150							$^{\circ}\text{C}$
Storage temperature	$T_{STG}$	-55 to +150							$^{\circ}\text{C}$

Notes: 1. Thermal resistance from junction to terminal mounted on P.C.B. with 5.0x5.0 mm square<sup>2</sup>(0.13mm thick) land area.

## RATING AND CHARACTERISTIC CURVES (CGRB301-G thru CGRB307-G)

Fig.1 Reverse Characteristics

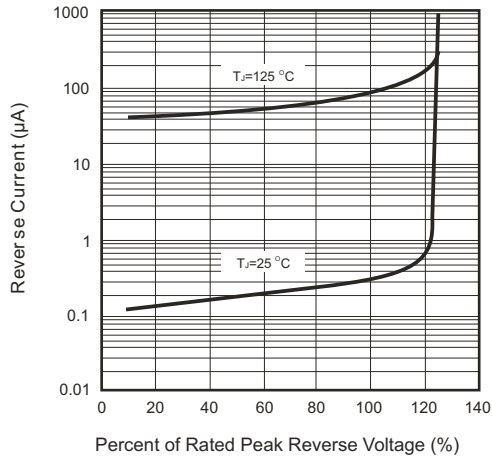


Fig.2 Forward Characteristics

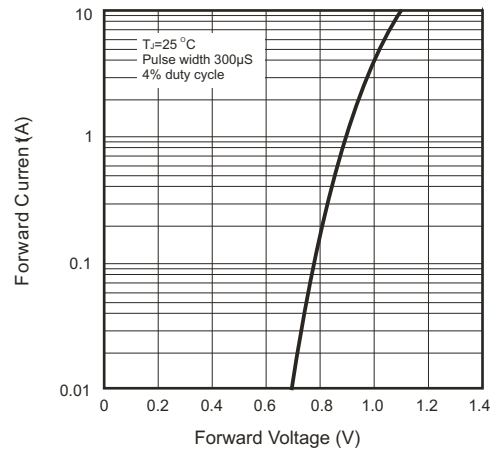


Fig.3 Junction Capacitance

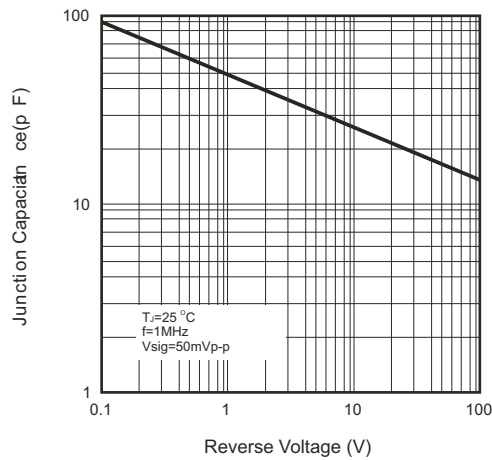


Fig.4 Current Derating Curve

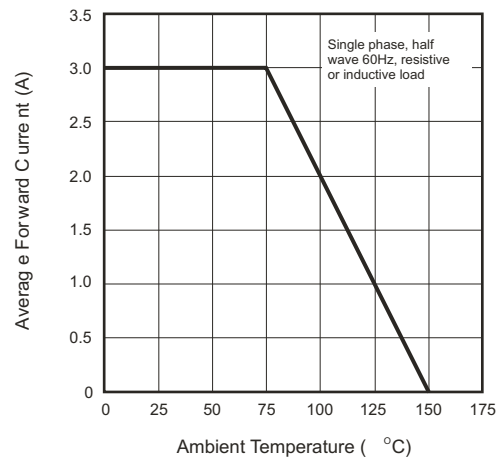
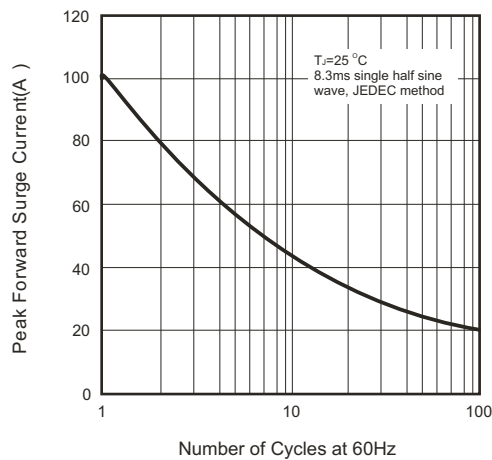


Fig.5 Non-repetitive Forward Surge Current



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