

## CGRB301 Thru CGRB307

**Glass Passivated Type**  
**Reverse Voltage: 50 - 1000 Volts**  
**Forward Current: 3.0 Amp**

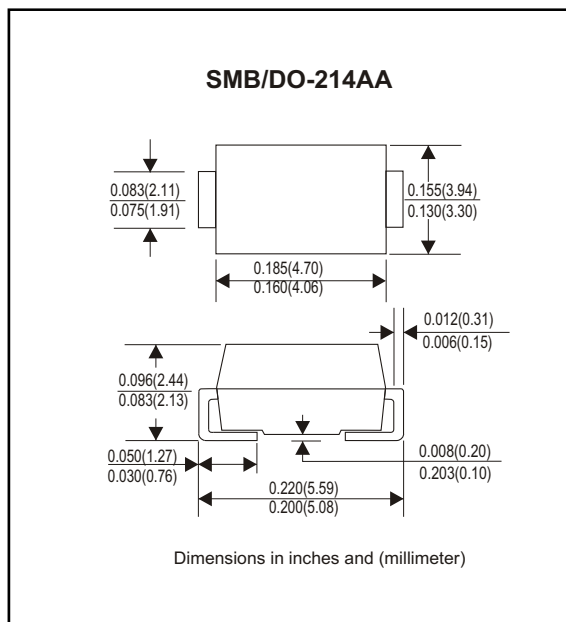


### Features

- 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
- Mounting position: Any
- Approx. Weight: 0.093 gram



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CGRB 301	CGRB 302	CGRB 303	CGRB 304	CGRB 305	CGRB 306	CGRB 307	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 halfsine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	100							A
Max. Average Forward Current	$I_o$	3.0							A
Max. Instantaneous Forward Current at 3.0 A	$V_F$	1.1							V
Max. DC Reverse Current at Rated DC Blocking Voltage $T_a=25^{\circ}C$ $T_a=100^{\circ}C$	$I_R$	5 50							$\mu A$
Max. Thermal Resistance (Note 1)	$R_{\theta JA}$	50							$^{\circ}C/W$
Operating Junction Temperature	$T_j$	-55 to +150							$^{\circ}C$
Storage Temperature	$T_{STG}$	-55 to +150							$^{\circ}C$

Note 1: Thermal resistance from junction to ambient.

## Rating and Characteristic Curves (CGRB301 Thru CGRB307)

Fig. 1 - Reverse Characteristics

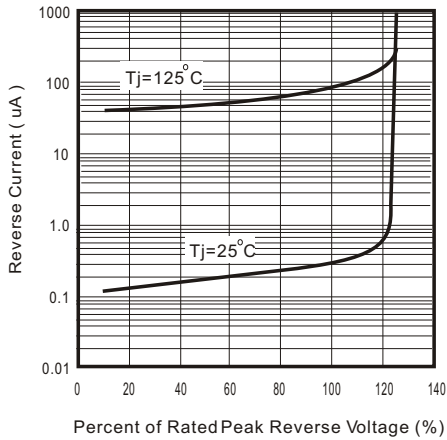


Fig. 2 - Forward Characteristics

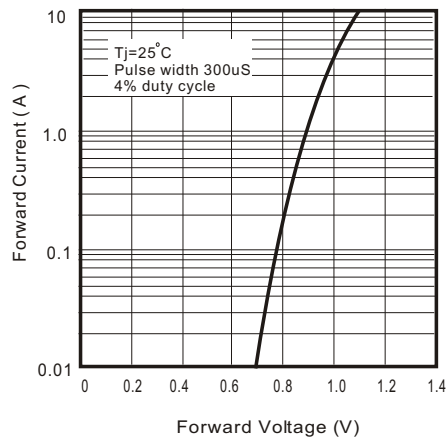


Fig. 3 - Junction Capacitance

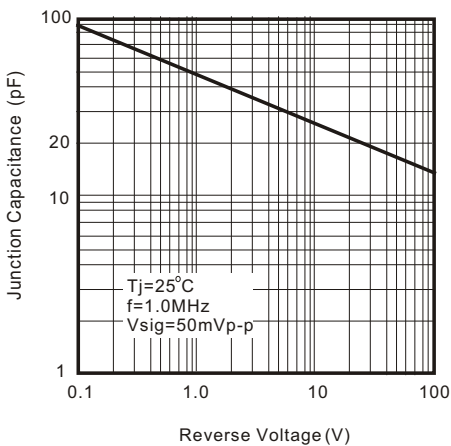


Fig. 4 - Current Derating Curve

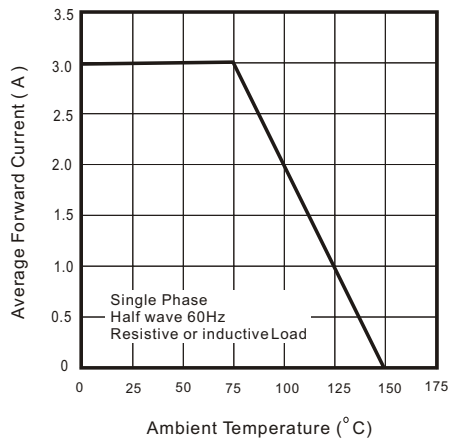


Fig. 5 - Non Repetitive Forward Surge Current

