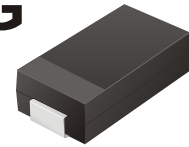


CGRA4001-G Thru. CGRA4007-G

Glass Passivated Type
Reverse Voltage: 50 to 1000 Volts
Forward Current: 1.0 Amp
RoHS Device

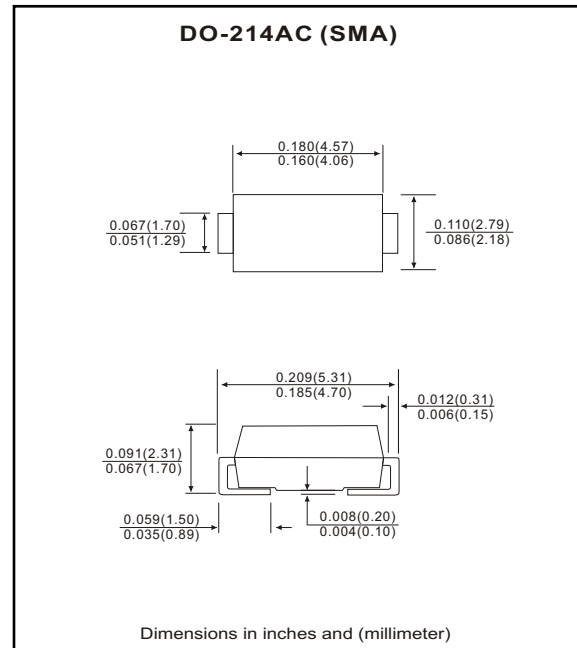


Features

- 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.
- Use in sensitive electronics protection against voltage transients induced by inductive load switching and lighting on ICs, MOSFET, signal lines of sensor units for consumer, computer, industrial, automotive and telecommunication.

Mechanical data

- Case: JEDEC DO-214AC, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.063 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CGRA 4001-G	CGRA 4002-G	CGRA 4003-G	CGRA 4004-G	CGRA 4005-G	CGRA 4006-G	CGRA 4007-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}	30							A
Max. average forward current	I_o	1.0							A
Max. instantaneous forward voltage at 1.0A	V_F	1.1							V
Max. DC reverse current at $T_A=25^{\circ}C$ rated DC blocking voltage $T_A=100^{\circ}C$	I_R	5.0 50							μA
Max. thermal resistance (Note 1)	$R_{\theta JA}$	75					85		$^{\circ}C/W$
Max. operating junction temperature	T_J	150							$^{\circ}C$
Storage temperature	T_{STG}	-55 to +150							$^{\circ}C$

Notes: 1. Thermal resistance from junction to terminals, unit mounted on P.C.B. with 5.0x5.0mm² copper pads.

RATING AND CHARACTERISTIC CURVES (CGRA4001-G thru CGRA4007-G)

Fig.1 Reverse Characteristics

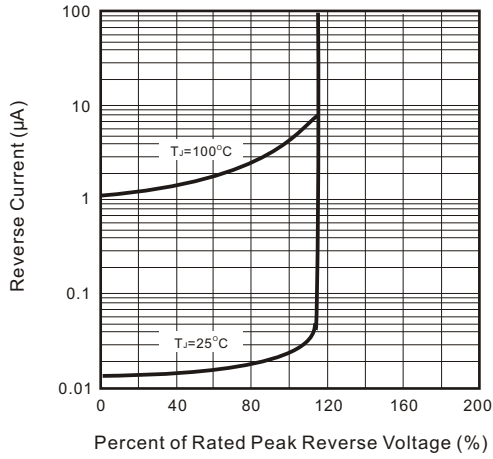


Fig.2 Forward Characteristics

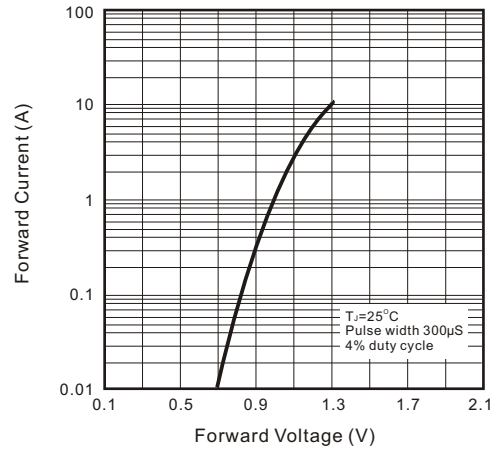


Fig.3 Junction Capacitance

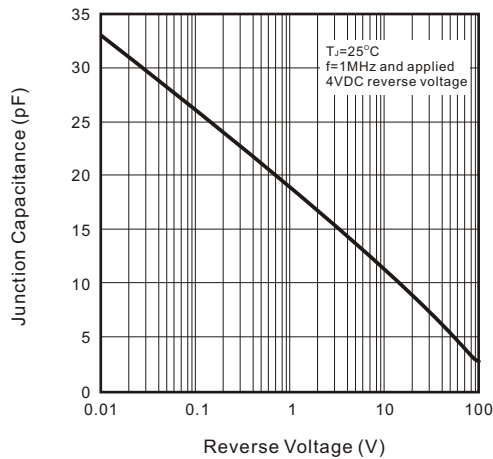


Fig.4 Current Derating Curve

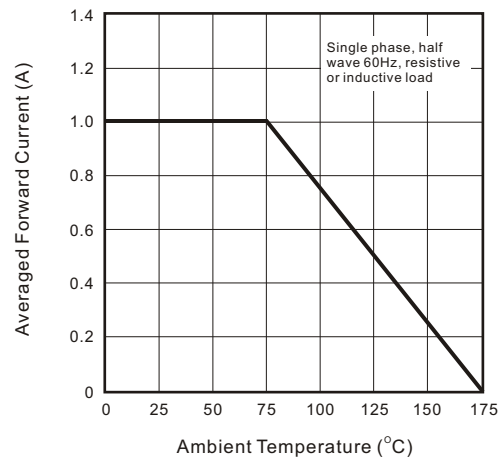


Fig.5 Non-repetitive Forward Surge Current

