

SMD General Purpose Rectifiers

COMCHIP
SMD Diodes Specialist

CGRC301-G Thru. CGRC307-G

Glass Passivated Type

Reverse Voltage: 50 to 1000 Volts

Forward Current: 3.0 Amp

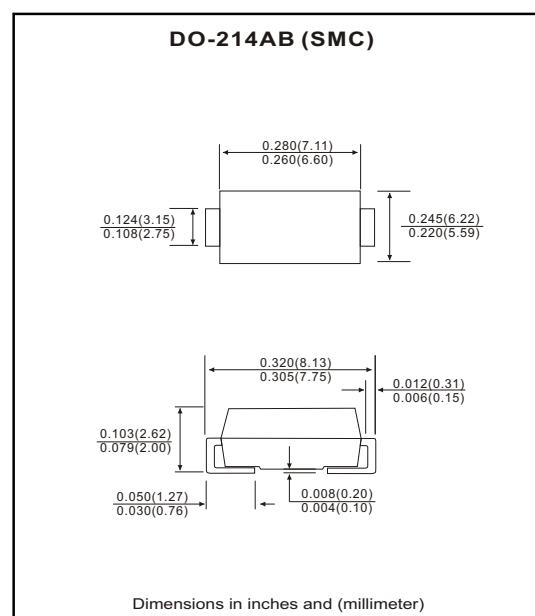
RoHS Device

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-214AB, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.21 grams



Dimensions in inches and (millimeter)

Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CGRC 301-G	CGRC 302-G	CGRC 303-G	CGRC 304-G	CGRC 305-G	CGRC 306-G	CGRC 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°C rated DC blocking voltage T _A =125°C	I _R				5.0	250			µA
Max. thermal resistance (Note 1)	R _{θJA}				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 mm² square (0.13mm thick) land area.

REV.A

QW-BG005

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RATING AND CHARACTERISTIC CURVES (CGRC301-G thru CGRC307-G)

Fig.1 Reverse Characteristics

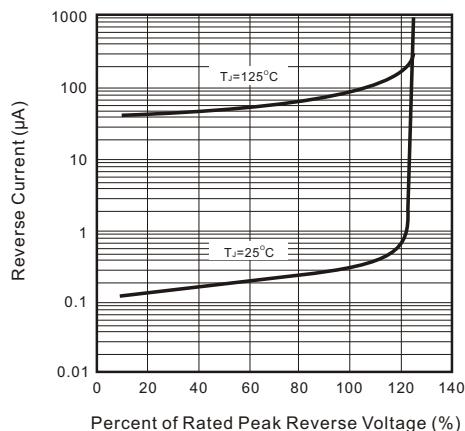


Fig.2 Forward Characteristics

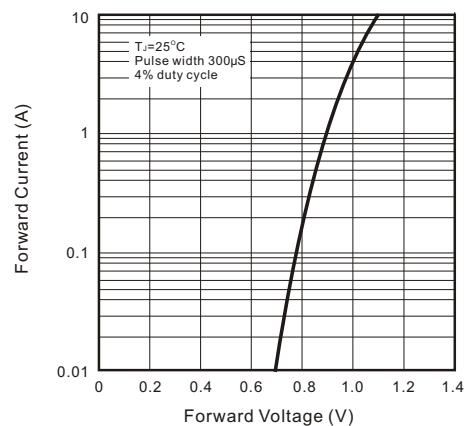


Fig.3 Junction Capacitance

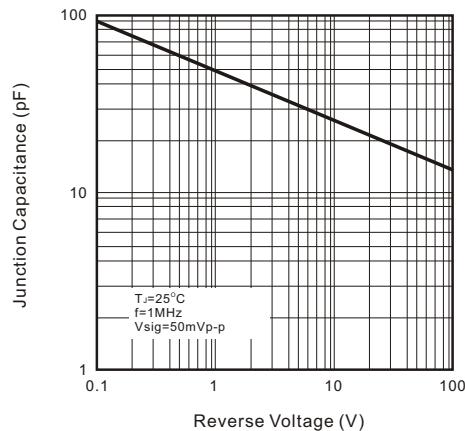


Fig.4 Current Derating Curve

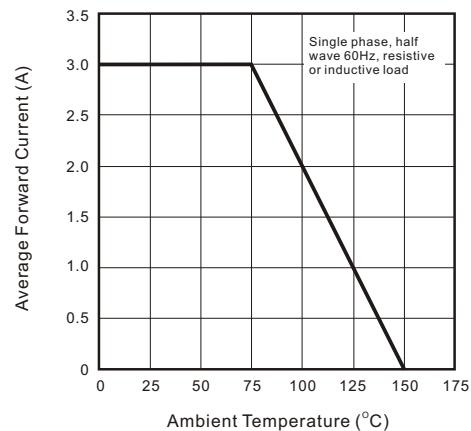


Fig.5 Non-repetitive Forward Surge Current

