

AUCGC30GH
FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * GPRC (Glass passivated rectifier chip) inside
- * Glass passivated cavity-free junction
- * Lead less chip form, no lead damage
- * Low profile package
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Comply with AEC-Q101

APPLICATION

- * General purpose rectification
- * Surge absorption
- * Automotive

MECHANICAL DATA

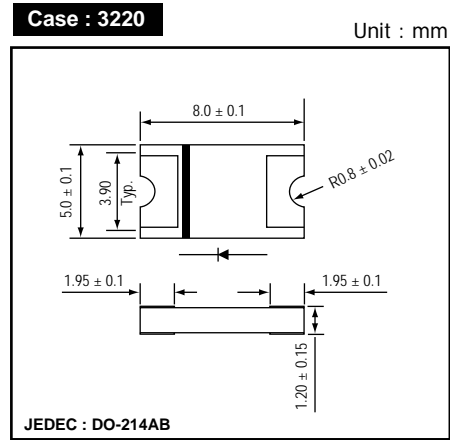
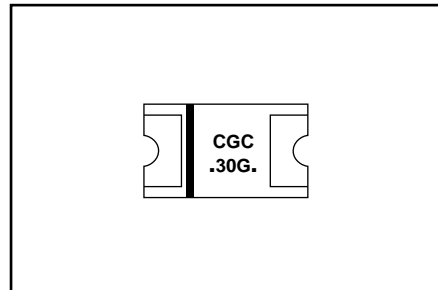
Case : Packed with FRP substrate and epoxy underfilled

Terminals : Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.

Polarity : Cathode Band, Laser marking

PACKING

- * 3,000 pieces per 13" (330mm ± 2mm) reel
- * 1 reels per box
- * 5 boxes per carton

OUTLINE DIMENSIONS

MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Rating	Unit
Repetitive peak reverse voltage	VRRM	400	V
Average forward current	IF(AV)	3.0	A
Peak forward surge current (8.3ms single half sine-wave)	IFSM	100	
Operating junction temperature Range	Tj	-65 to +175	°C
Storage temperature Range	TSTG	-65 to +175	

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 3.0A	-	0.96	1.0	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C	-	0.10	5	µA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	25	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	-	118	-	°C/W
	Rth(JL)	Junction to lead (NOTE)	-	32	-	

NOTES : Mounted on P.C.B. with 5 mm x 5 mm copper pad areas.

FIG.1 - FORWARD CURRENT DERATING CURVE

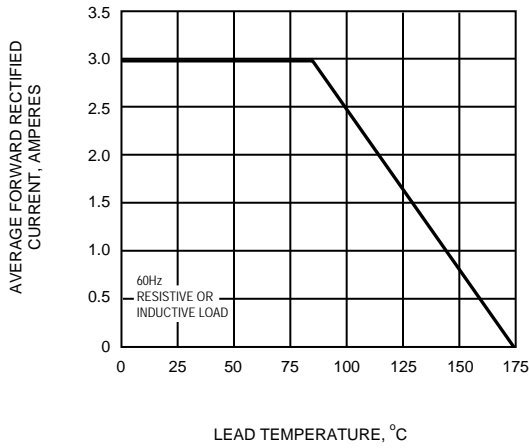


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

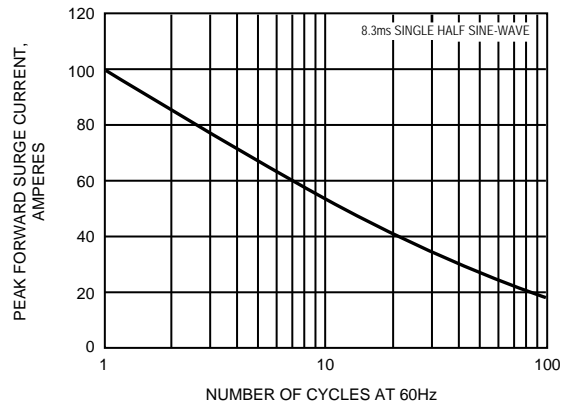


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

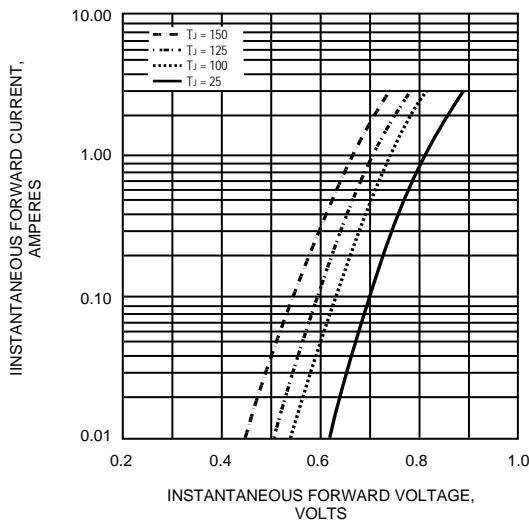


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

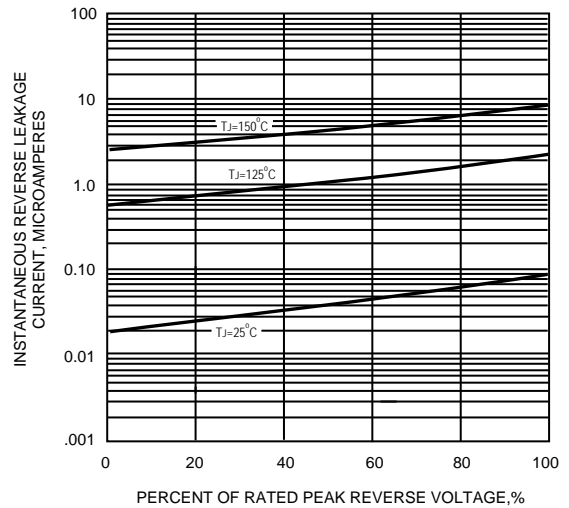


FIG.5 - TYPICAL JUNCTION CAPACITANCE

