CGC30DH THRU CGC30MH

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

APPLICATION

* General purpose rectification
* Surge absorption

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

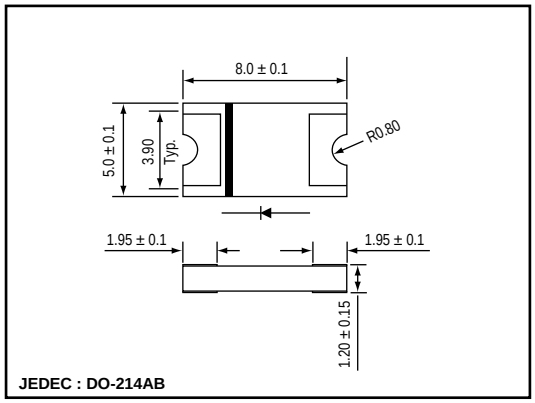
PACKING

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

OUTLINE DIMENSIONS

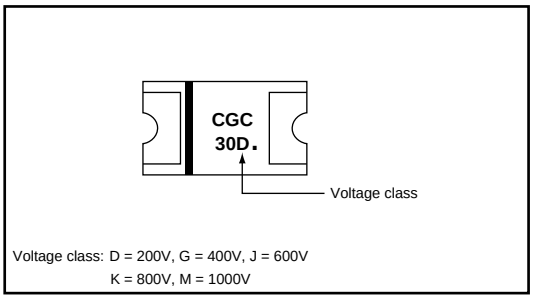
Case : 3220

Unit : mm



JEDEC : DO-214AB

MARKING



Voltage class: D = 200V, G = 400V, J = 600V
K = 800V, M = 1000V

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Rating					Unit
		CGC30DH	*CGC30GH*	*CGC30JH*	*CGC30KH*	*CGC30MH*	
Repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
Average forward current	$I_{F(AV)}$	3.0					A
Peak forward surge current (8.3ms single half sine-wave)	I_{FSM}	100					
Operating junction temperature Range	T_j	-65 to +175					°C
Storage temperature Range	T_{STG}	-65 to +175					

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F = 3.0A	-	0.96	1.0	V
Repetitive peak reverse current	I_{RRM}	V_R = Max. V_{RRM} , Ta = 25 °C	-	0.10	5	uA
Thermal resistance	$R_{th(JA)}$	Junction to ambient (NOTE)	-	118	-	°C/W
	$R_{th(JC)}$	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

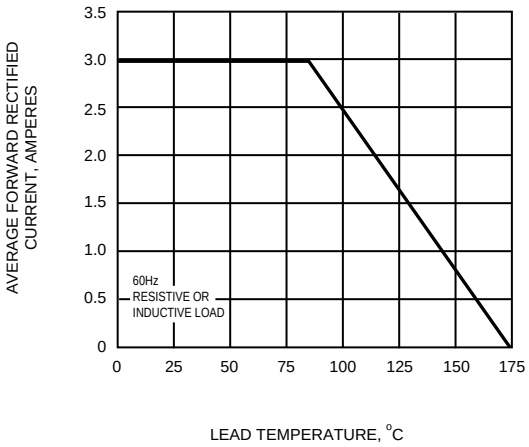


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

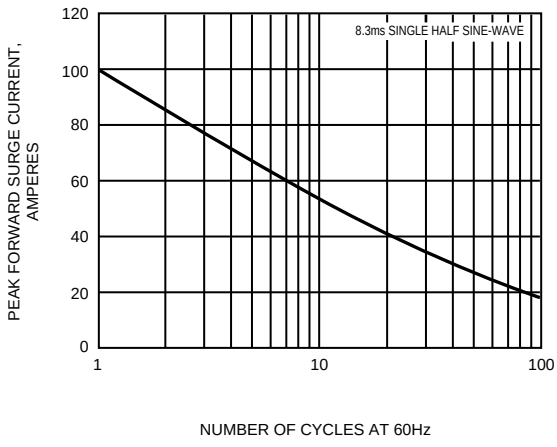


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

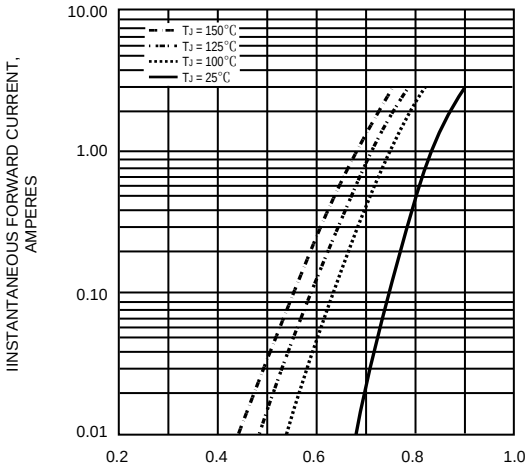


FIG.4 - TYPICAL REVERSE CHARACTERISTICS