

**GC10DH THRU GC10YH**

● **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
- \* For surface mounted applications
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● **APPLICATION**

- \* General purpose rectification
- \* Surge absorption

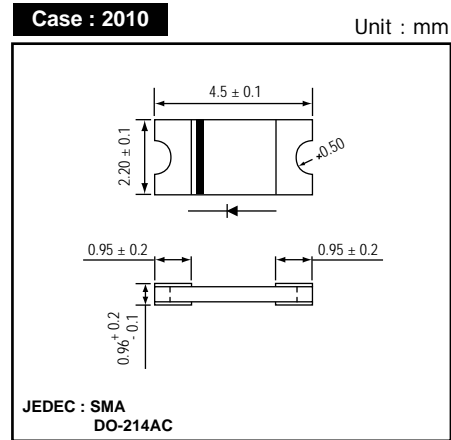
● **MECHANICAL DATA**

**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  
**Weight** : 0.02 gram

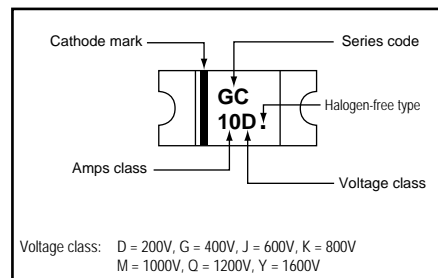
● **PACKING**

- \* 3,000 pieces per 7" (178mm ± 2mm) reel
- \* 4 reels per box
- \* 6 boxes per carton

● **OUTLINE DIMENSIONS**



● **MARKING**



**Absolute Maximum Ratings (Ta = 25 °C)**

ITEM	Symbol	Rating							Unit
		GC10DH	GC10GH	GC10JH	GC10KH	GC10MH	GC10QH	GC10YH	
Repetitive peak reverse voltage	VRRM	200	400	600	800	1000	1200	1600	V
Average forward current	IF(AV)	1.0							A
Peak forward surge current (8.3ms single half sine-wave)	IFSM	30							
Operating junction temperature Range	Tj	-65 to +175							°C
Storage temperature Range	TSTG	-65 to +175							

**Electrical characteristics (Ta = 25 °C)**

ITEM	Symbol	Conditions	Type	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 1.0A	GC10DH / GC10MH	-	0.94	1.00	V
			GC10QH / GC10YH	-	-	1.25	
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25	GC10DH / GC10YH	-	0.10	5	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	12	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)		-	115	-	/W
	Rth(JC)	Junction to lead (NOTE)		-	21	-	

NOTES : (1) Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

FIG.1 - FORWARD CURRENT DERATING CURVE

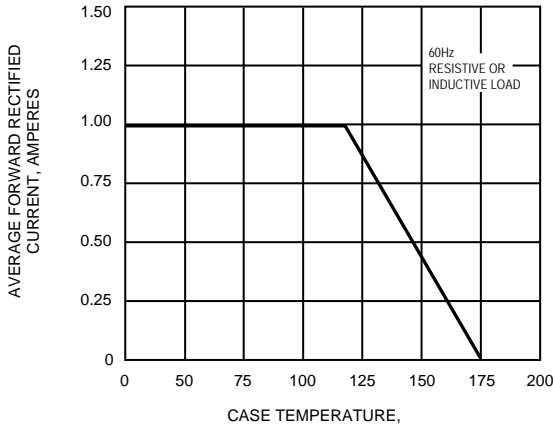


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

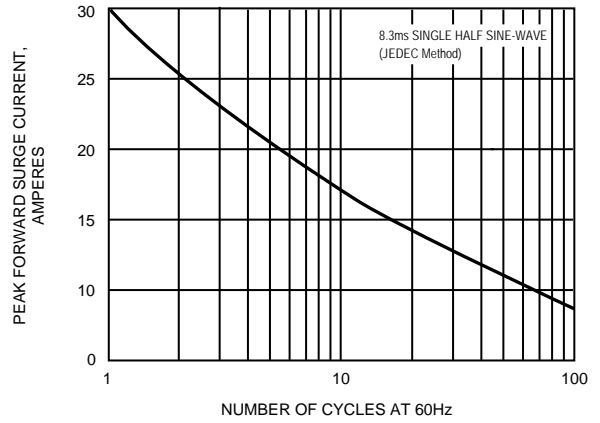


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

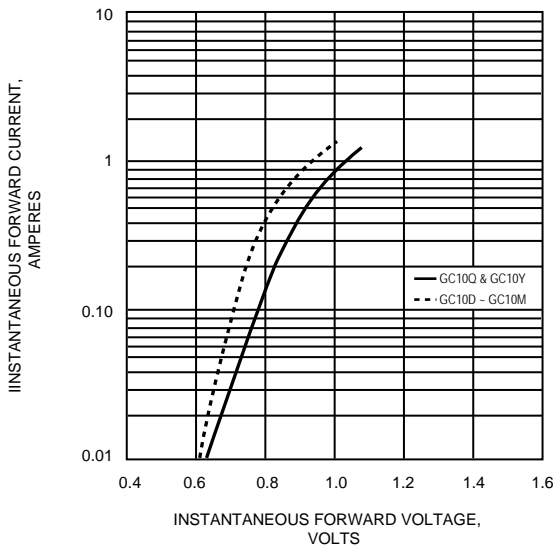


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

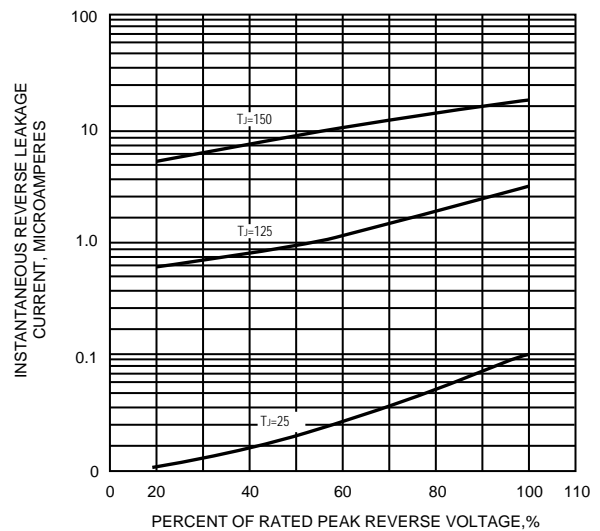


FIG.5 - TYPICAL JUNCTION CAPACITANCE

