

**GC20DH THRU GC20MH**
**● FEATURES**

- \* Halogen-free type
- \* Lead free product, compliance to RoHS
- \* GPRC (Glass passivated rectifier chip) inside
- \* Glass passivated cavity-free junction
- \* Lead less chip form, no lead damage
- \* Low forward voltage drop
- \* 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

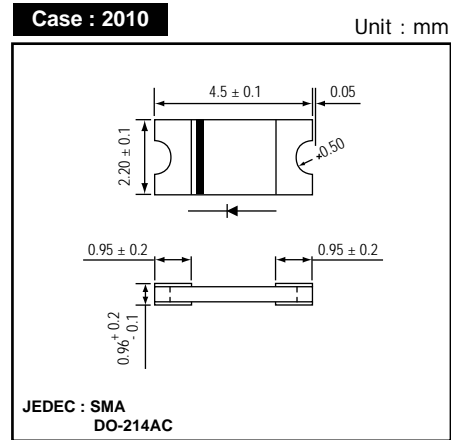
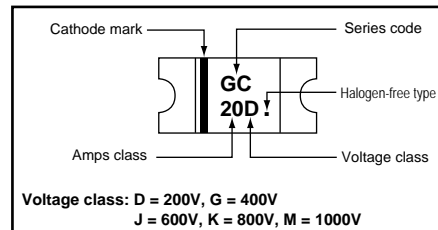
**Terminals :** Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.

**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

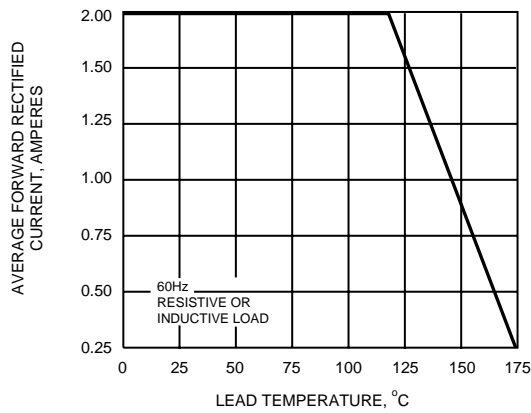
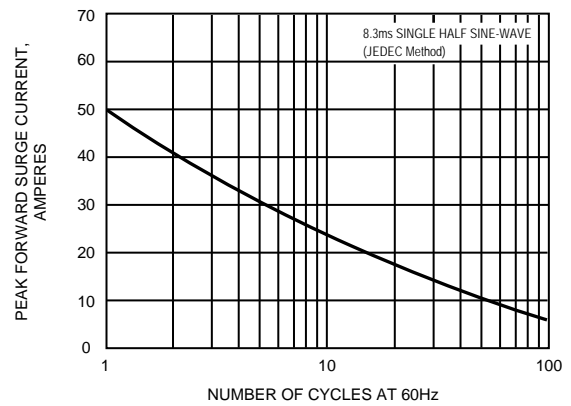
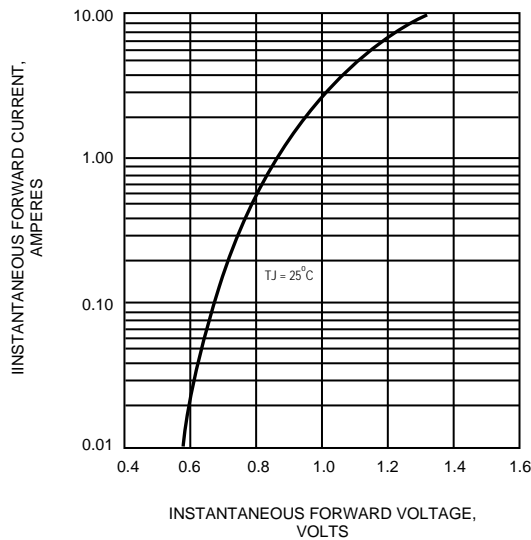
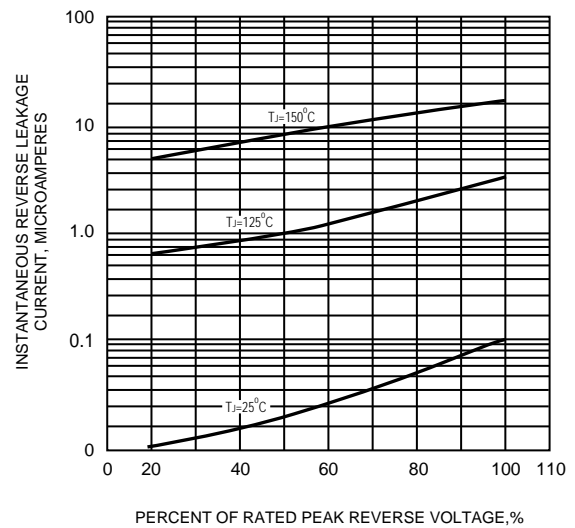
**● OUTLINE DIMENSIONS**

**● MARKING**

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

ITEM	Symbol	Rating					Unit
		GC20DH	GC20GH	GC20JH	GC20KH	GC20MH	
Repetitive peak reverse voltage	VRRM	200	400	600	800	1000	V
Average forward current	IF(AV)	2.0					A
Peak forward surge current (8.3ms single half sine-wave)	IFSM	50					
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 = 2.0A	-	0.96	1.00	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	-	15	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	-	85	-	°C/W
	Rth(JL)	Junction to lead (NOTE)	-	16	-	

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.  
(2) Preliminary draft.

**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**
