

GBU808LC AND GBU810LC
Low VF Bridge Rectifier

● **FEATURES**

- * Internal structure with GPRC (glass passivated rectifier chip) inside
- * Compliance to RoHS product
- * Low forward voltage drop
- * Superior thermal conductivity
- * Ideal for printed circuit boards
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * This series is UL listed under the recognized component index, file number E335309

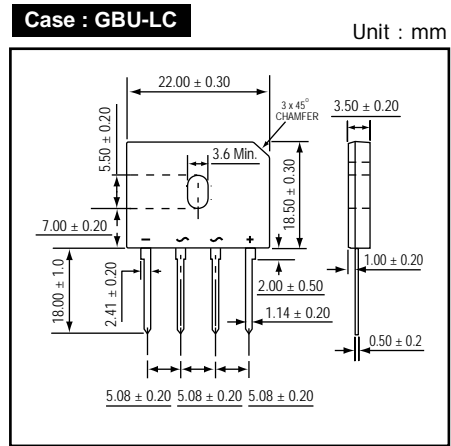
● **MECHANICAL DATA**

- Case :** Molded Plastic
- Terminals :** Tin Plated, solderable per MIL-STD-750, Method 2026.
- Polarity :** As marked on Body
- Weight :** 4.0 grams(approx)

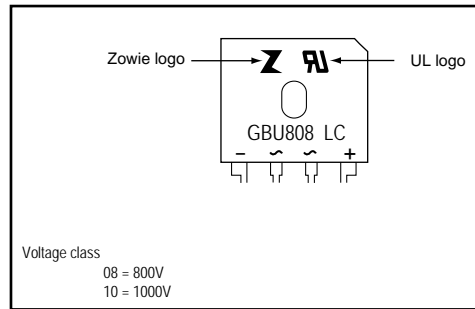
● **PACKING**

- Bulk :**
- * 20 pces per tube pack
- * 720 pcs per boxes
- * 2,880 pcs per carton

● **OUTLINE DIMENSIONS**



● **MARKING**

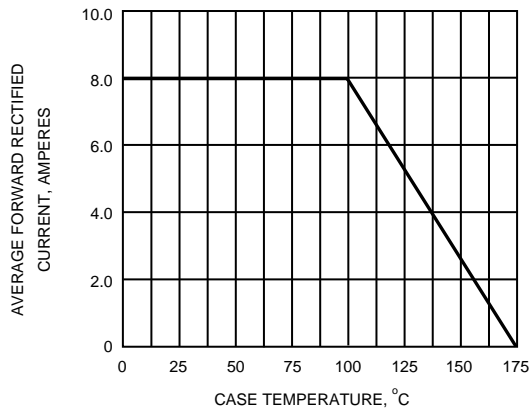
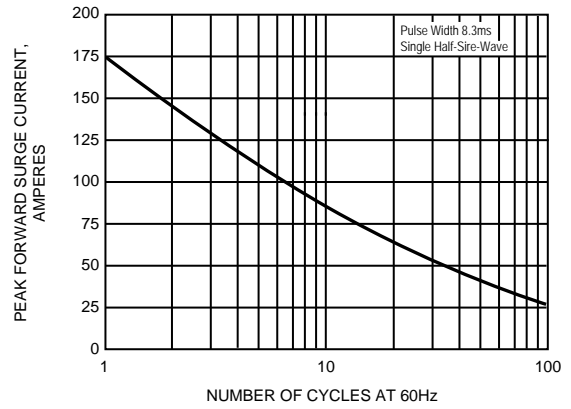
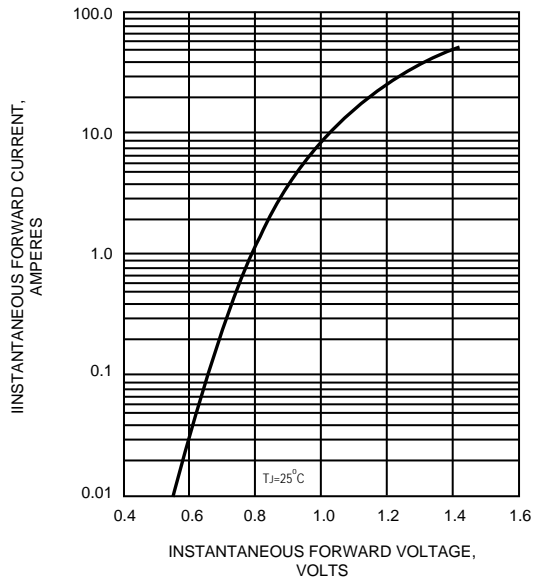
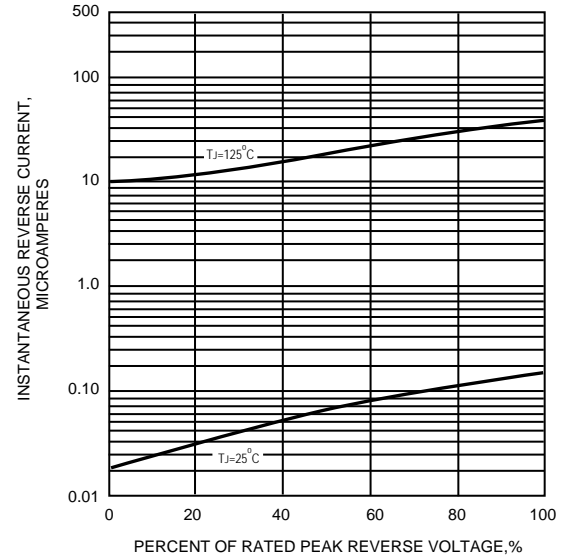


Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating		Unit
			GBU808LC	GBU810LC	
Repetitive peak reverse voltage	VRRM		800	1000	V
Average forward current at Tc = 100	IF(AV)	Notes (1, 2)	8.0		A
Peak forward surge current	IFSM	8.3ms single half sine-wave	175		A
Operating junction and storage temperature Range	Tj, TSTG		-55 to +175		°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 4.0A	-	0.90	0.92	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C	-	-	5	uA
Rating for fusing (t<8.3ms)	I²t		-	-	127	A²sec
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	60	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (Without heatsink)	-	22	-	°C/W
	Rth(JC)	Junction to lead (With heatsink)	-	2.2	-	

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 PER BRIDGE ELEMENT

FIG.5 - TYPICAL JUNCTION CAPACITANCE
