

GBU608LC AND GBU610LC
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
- * High current capability with small package
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * This series is UL listed under the recognized component index, file number E335309

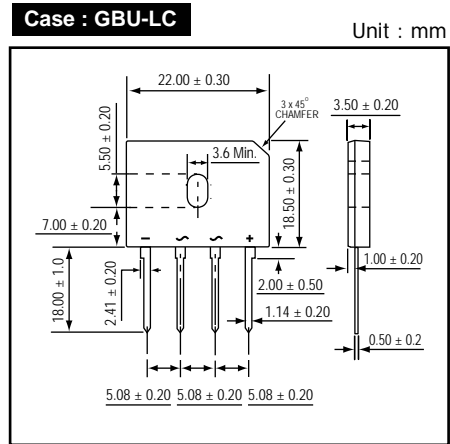
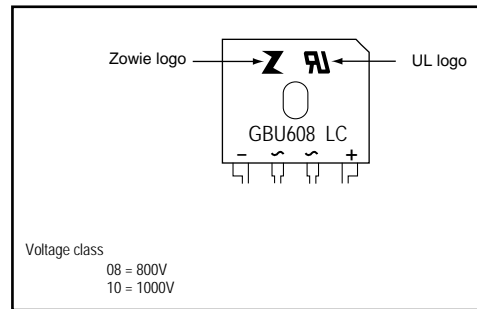
● MECHANICAL DATA

Case : Molded Plastic

Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026.

Polarity : As marked on Body

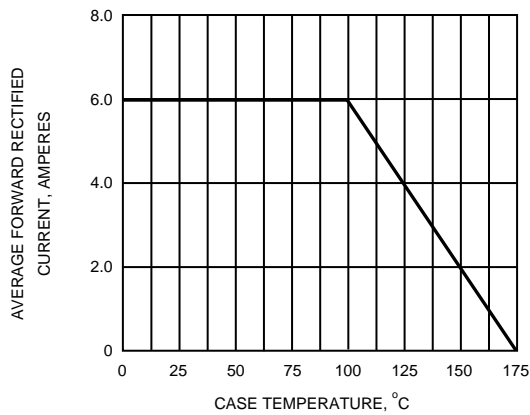
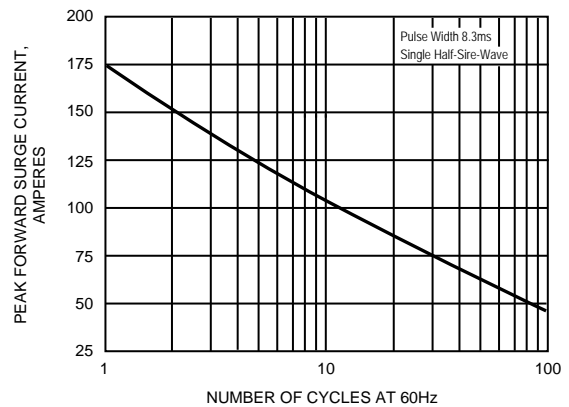
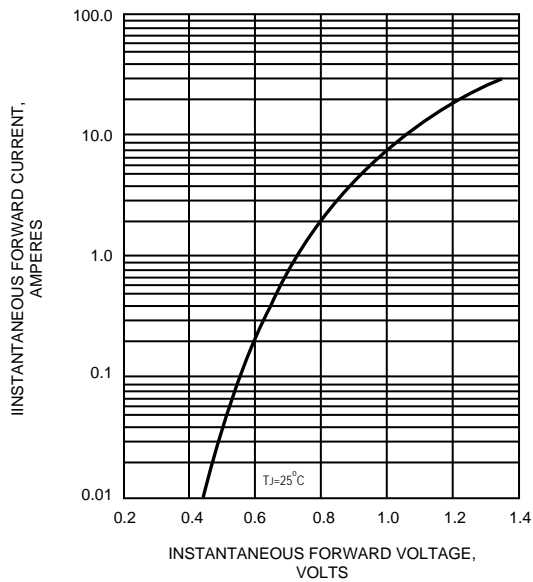
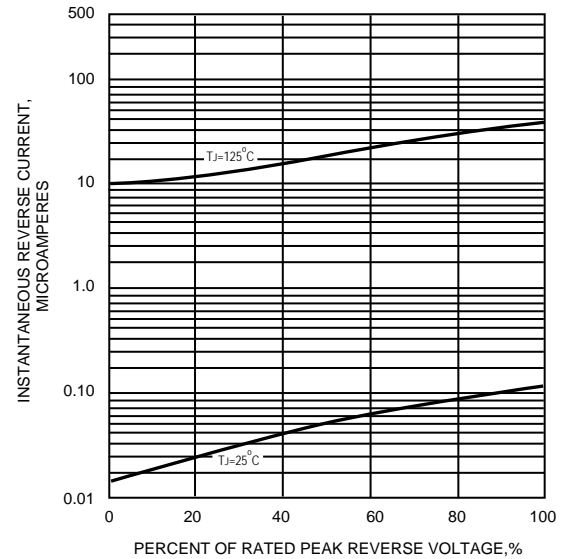
Weight : 4.0 grams(approx)

● OUTLINE DIMENSIONS

● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating		Unit
			GBU608LC	GBU610LC	
Repetitive peak reverse voltage	VRRM		800	1000	V
Average forward current at See fig.1	IF(AV)	TA = 50	6.0		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 = 3.0A	-	0.87	0.90	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C	-	-	5	uA
Rating for fusing (t<8.3ms)	I ² t		-	-	127	A ² sec
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	65	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (Without heatsink)	-	22	-	°C/W
	Rth(JC)	Junction to lead (With heatsink)	-	2.8	-	

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
