

GBU1008L
Low VF Bridge Rectifier
● FEATURES

- * Internal structure with GPRC (glass passivated rectifier chip) inside
- * Lead free product, compliance to RoHS
- * Low forward voltage drop
- * Superior thermal conductivity
- * Ideal for printed circuit boards
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● MECHANICAL DATA
Case : Molded Plastic

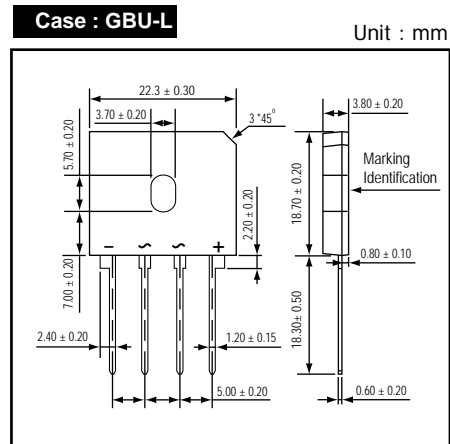
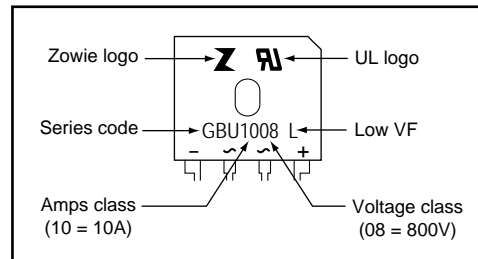
Terminals : Tin Plated, solderable per MIL-STD-750, Method 2026.

Polarity : As marked on Body

Weight : 4.0 grams(approx)

● PACKING
Bulk :

- * 20 pces per tube pack
- * 1,000 pcs per boxes
- * 2 boxes per carton

● OUTLINE DIMENSIONS

● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

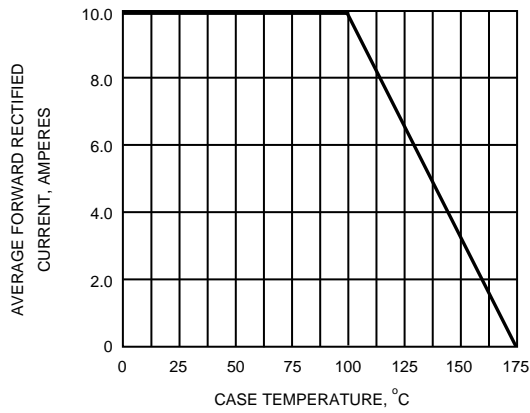
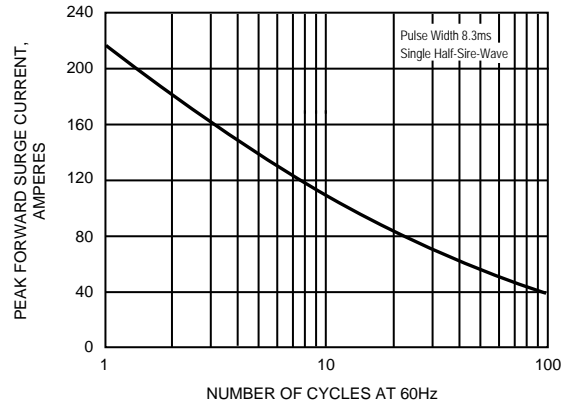
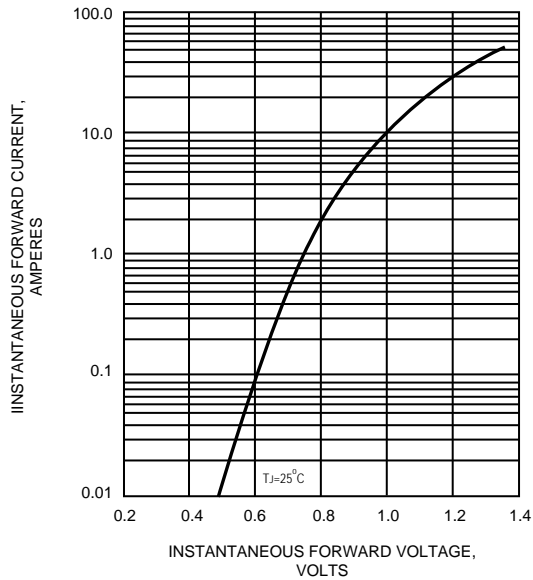
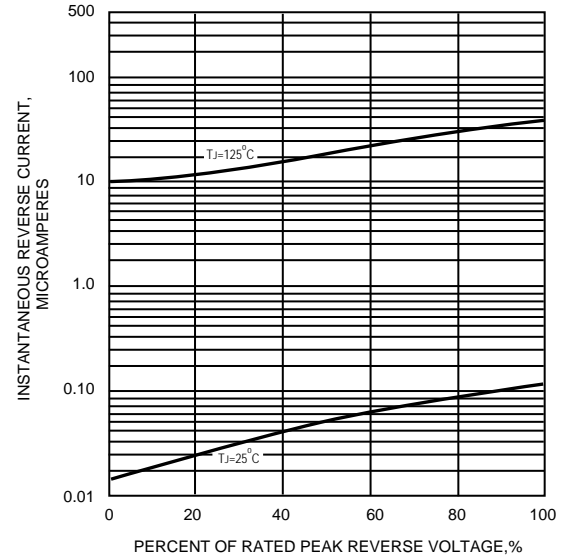
ITEM	Symbol	Conditions	Rating	Unit
			GBU1008L	
Repetitive peak reverse voltage	VRRM		800	V
Average forward current at Tc = 100	IF(AV)	With heatsink	10	A
Peak forward surge current	IFSM	8.3ms single half sine-wave	220	A
Operating storage temperature Range	Tj,TSTG		-55 to +175	°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 5.0A	-	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		-	-	200	A²sec
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz (NOTE 1)	-	69	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (With heatsink)	-	25	-	°C/W
	Rth(JC)	Junction to lead (With heatsink)	-	3.2	-	

NOTES : (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

(2) Preliminary

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
