GBU602LC THRU GBU606LC
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.

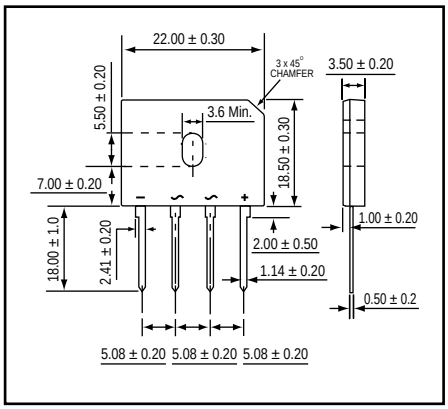
Polarity : As marked on Body

Weight : 4.0 grams(approx)

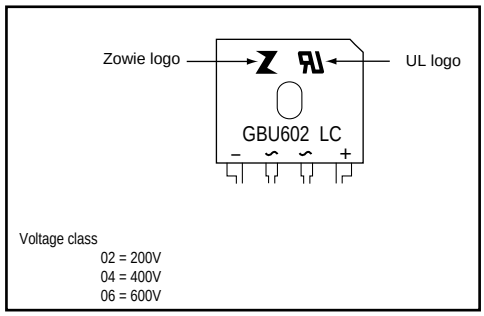
● OUTLINE DIMENSIONS

Case : GBU-LC

Unit：mm



● MARKING



Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating			Unit
			GBU602LC	GBU604LC	GBU606LC	
Repetitive peak reverse voltage	V_{RRM}		200	400	600	V
Average forward current at T_A = 50℃ See fig.1	$I_{F(AV)}$		6.0			A
Peak forward surge current	I_{FSM}	8.3ms single half sine-wave	200			A
Operating junction and storage temperature Range	T_j,T_{STG}		-55 to +175			°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F = 3.0A	-	0.87	0.89	V
Repetitive peak reverse current	I_{RRM}	V_R = Max. V_{RRM} , Ta = 25 °C	-	-	5	uA
Rating for fusing (t<8.3ms)	I^2t		-	-	166	A^2sec
Junction capacitance	C_j	V_R = 4V, f = 1.0 MHz	-	65	-	pF
Thermal resistance	$R_{th(JA)}$	Junction to ambient (Without heatsink)	-	22	-	°C/W
	$R_{th(JC)}$	Junction to lead (With heatsink)	-	2.8	-	

FIG.1 - FORWARD CURRENT DERATING CURVE

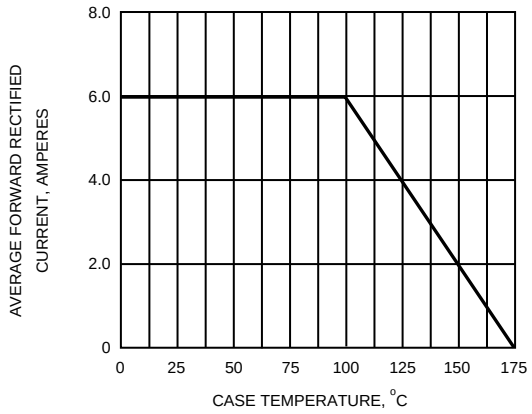


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

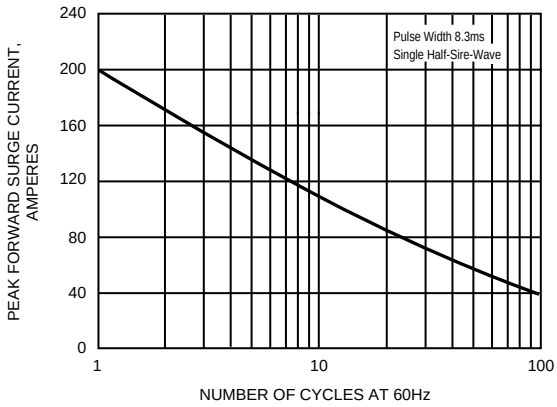


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

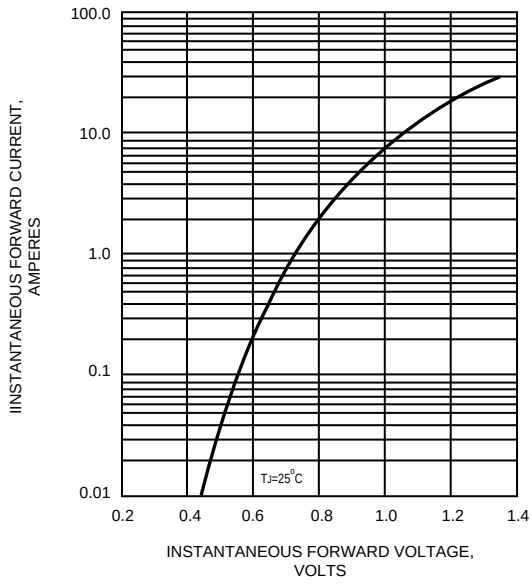


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

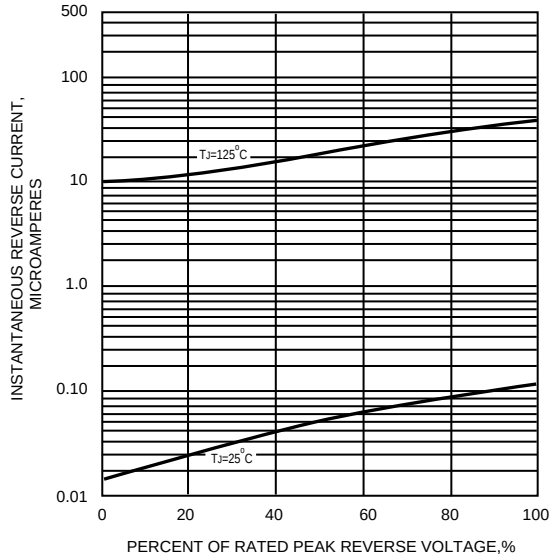


FIG.5 - TYPICAL JUNCTION CAPACITANCE