GBU608

SINGLE PHASE6.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

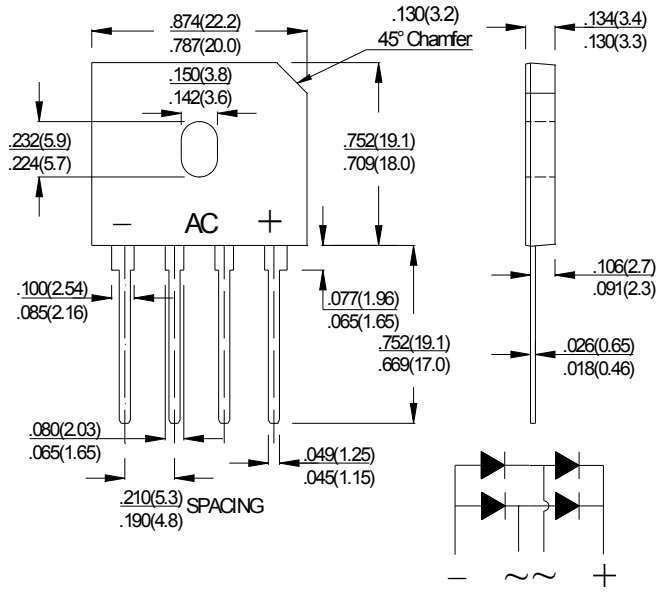
FEATURE

. Ideal for printed circuit board
. Glass passivated chip junctions
. High case dielectric strength
. Low leakage
. Low forward voltage
. High surge current capability
. High temperature soldering guaranteed:
260℃/10seconds/.375",(9.5mm) lead lengths.

MECHANICAL DATA

. Case: Molded plastic body
. Epoxy: UL 94V-0 rate flame retardant
. Terminals: Pure tin plated, Lead free. Leads solderable per MIL-STD-750, Method 2026.
. Polarity: Symbols molded or marked on body
. Mounting position: Any

GBU



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	SYM BOL	GBU608	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	V
Maximum RMS Voltage	V_{RMS}	560	V
Maximum DC blocking Voltage	V_{DC}	800	V
Maximum Average Forward rectified Output Current at T_C=90°C	$I_{F(AV)}$	6.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	150	A
Maximum Forward Voltage Drop per element at 6.0A DC	V_F	1.1	V
Maximum DC Reverse Current @T_A =25°C at rated DC blocking voltage @T_A =125°C	I_R	10.0 500.0	μA
I^2t Rating for Fusing (t < 8.3ms)	I^2t	93	A^2Sec
Typical Junction Capacitance (Note 1)	C_J	45	pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.2	°C/W
Storage Temperature	T_{STG}	-55 to +150	°C
Operating Junction Temperature	T_J	-55 to +150	°C

Note:
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2.Thermal Resistance from Junction to Case Mounted on P.C.B with0.47×0.47"(12×12mm) Copper Pads.

RATING AND CHARACTERISTIC CURVES (GBU608)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

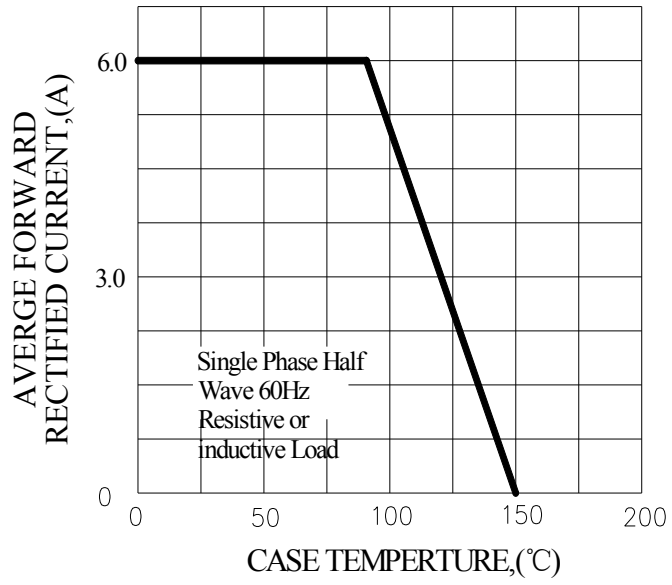


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

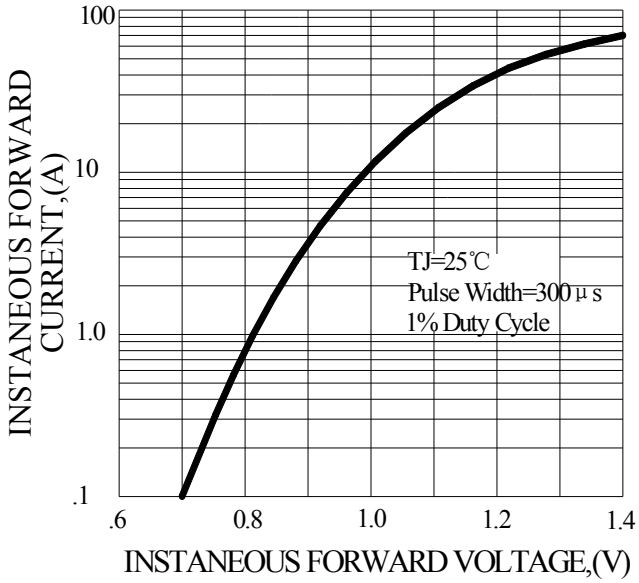


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

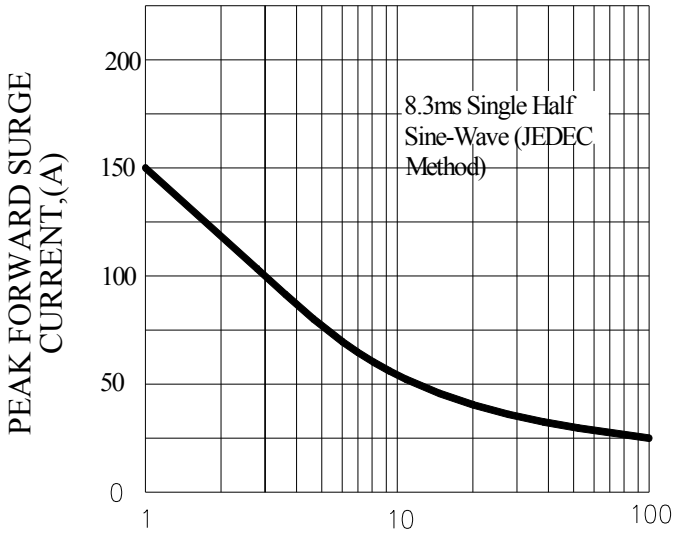
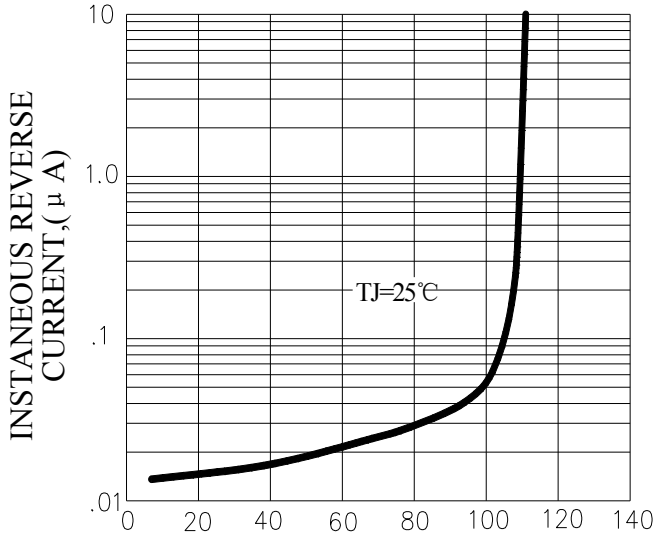
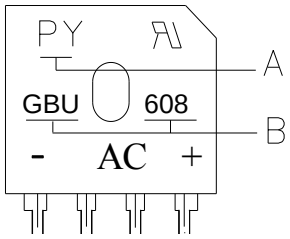


FIG.4-TYPICAL REVERSE CHARACTERISTICS



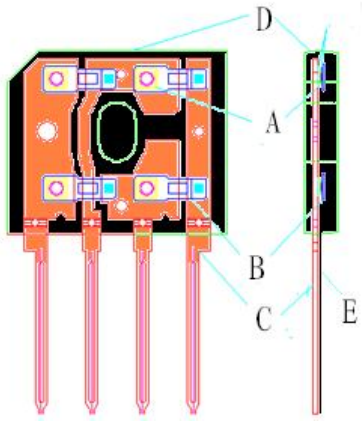
Marking and packaging illustration

1、Marking



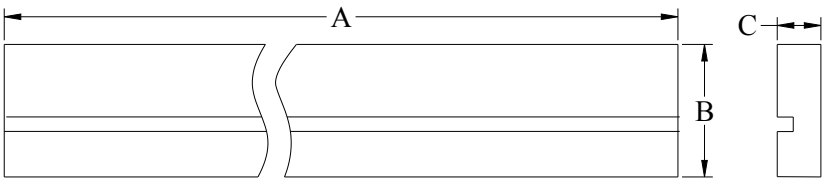
SYMBOL	Explanation
A	Trademark
B	Product Name

2、Structure

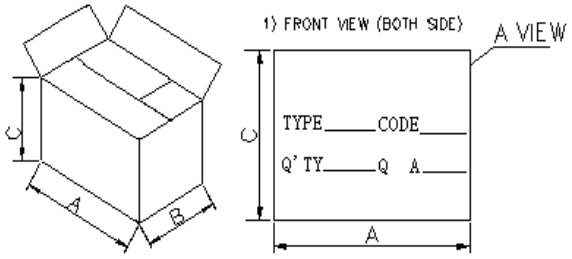


SYMBOL	Explanation
1	Dice
2	Solder
3	Lead Wire
4	Epoxy Compound
5	Plating

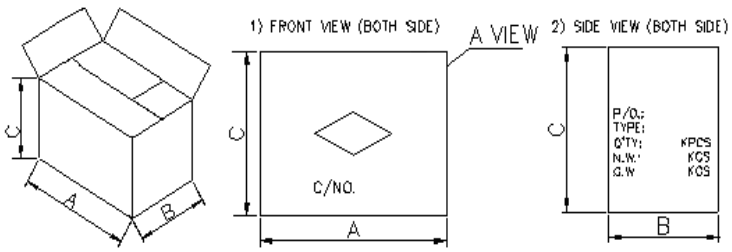
3、Packaging



Tube



Inside Box



Carton

OUTLINE	A（mm）	B（mm）	C（mm）
Tube	470±1	41±1	7.0±1
Inner box	478±3	48±3	175±3
Carton	496±5	185±5	220±5

COUNT	TUBE（PCS）	BOX（PCS）	CARTON(PCS)
GBU	20	400	2800