PINGWEI ENTERPRISE

GBL406L

SINGLE PHASE4.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

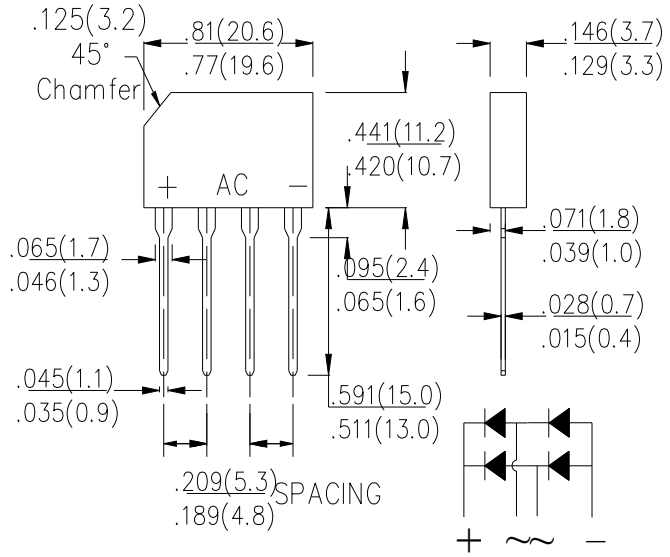
FEATURE

. 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

GBL



Dimensions in inches and (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	SYMBOL	GBL406L	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC blocking Voltage	V_{DC}	600	V
Maximum Average Forward rectified Output Current at T_A=90°C	$I_{F(AV)}$	4.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	120	A
Maximum Forward Voltage Drop per element at 4.0A DC	V_F	0.96	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	59	A^2Sec
Typical Junction Capacitance (Note 1)	C_J	40	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 (GBL406L)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

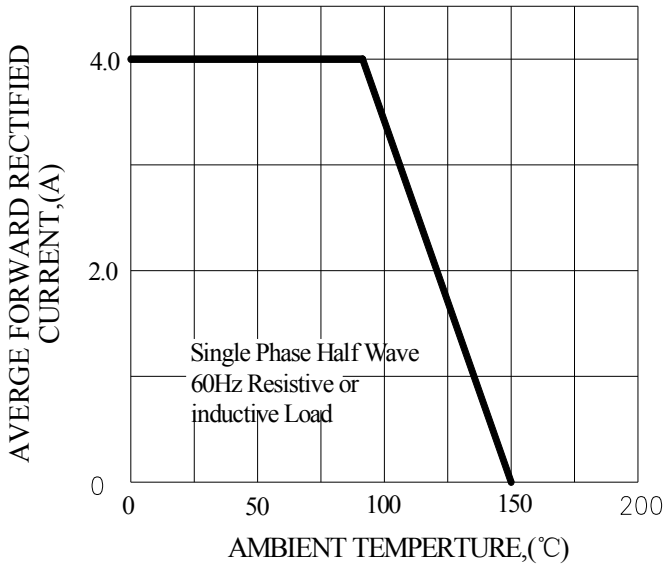


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

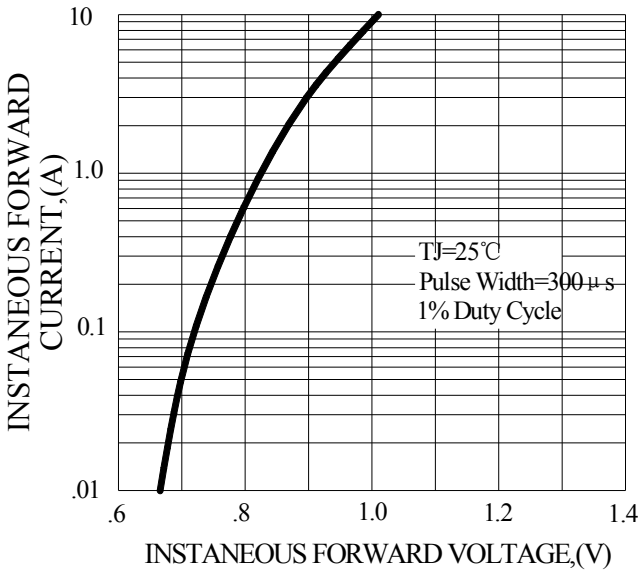


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

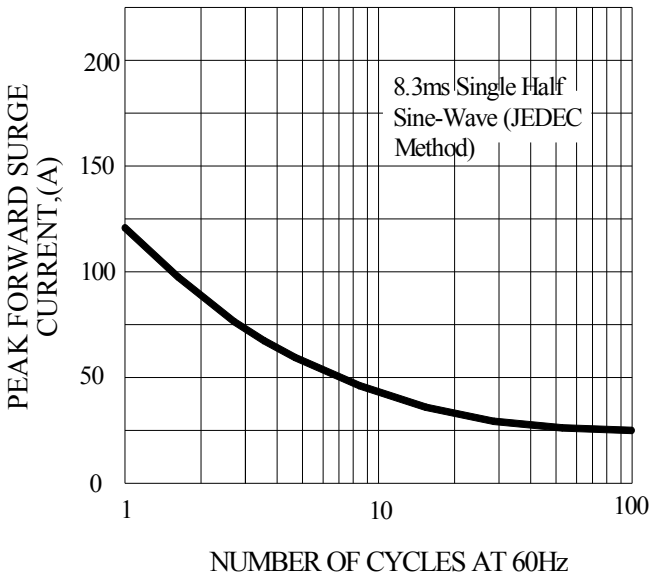
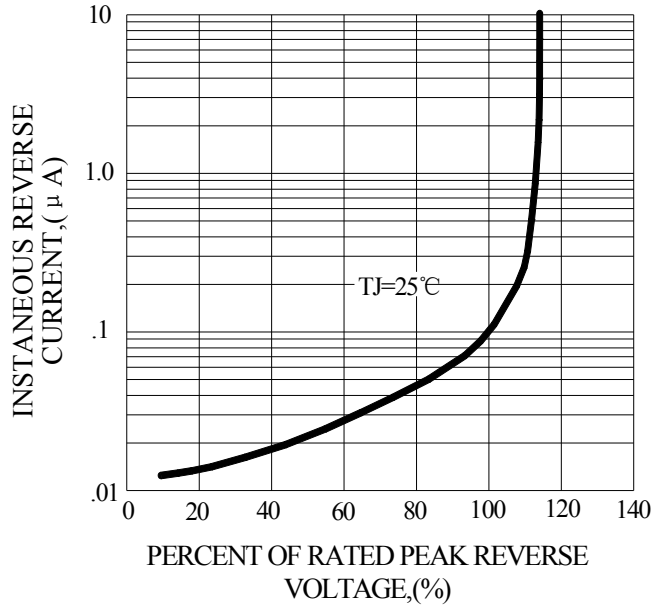
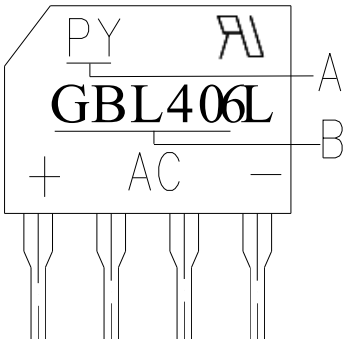


FIG.4-TYPICAL REVERSE CHARACTERISTICS



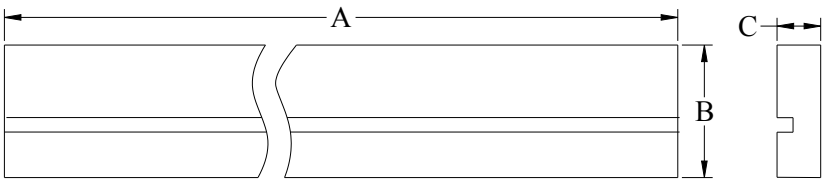
Marking and packaging illustration

1、Marking

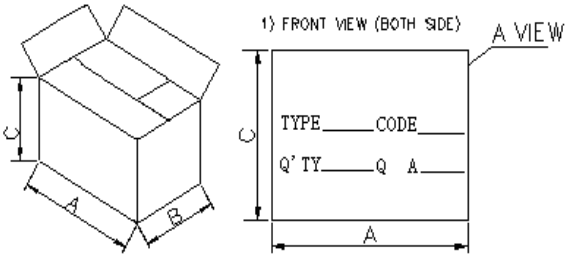


SYMBOL	Explanation
A	Trademark
B	Product Name

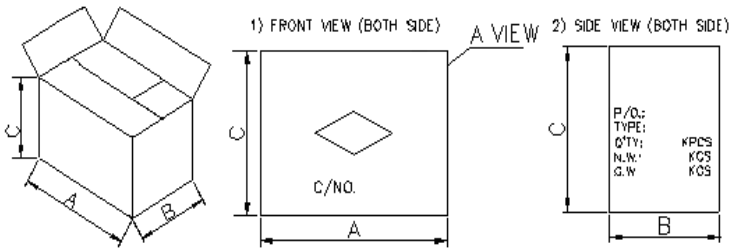
2、Packaging



Tube



Inside Box



Carton

OUTLINE	A (mm)	B (mm)	C (mm)
Tube	512.5±1	28.8±1	6.1±1
Inner box	518±3	40±3	150±3
Carton	528±5	240±5	160±5

COUNT	TUBE (PCS)	BOX (PCS)	CARTON (PCS)
GBL	25	625	3750