

## GBP206 THRU GBP210

### SINGLE PHASE 2.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

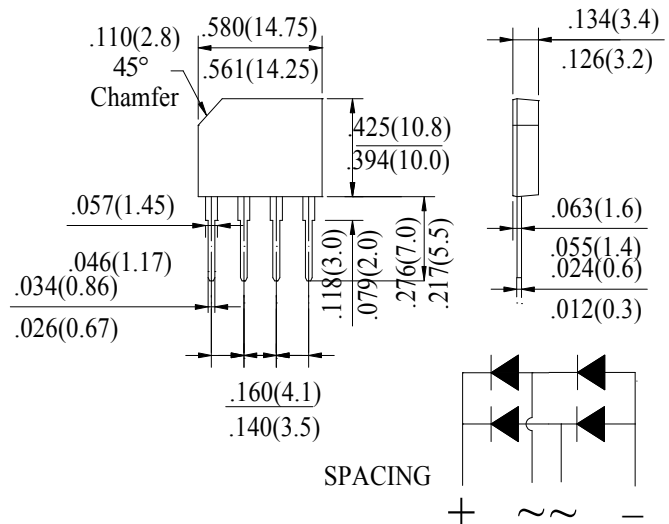
#### FEATURE

- . 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°C/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

#### GBP



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C 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	GBP206	GBP208	GBP210	units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	420	560	700	V
Maximum DC blocking Voltage	$V_{DC}$	600	800	1000	V
Maximum Average Forward rectified Output Current at $T_A=50^\circ\text{C}$	$I_{F(AV)}$	2.0			A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	60			A
Maximum Forward Voltage Drop per element at 2.0A DC	$V_F$	1.1			V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	$I_R$	5.0 500.0			$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	14.9			$\text{A}^2\text{Sec}$
Typical Junction Capacitance (Note 1)	$C_J$	25			pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	16			$^\circ\text{C}/\text{W}$
Storage Temperature	$T_{STG}$	-55 to +150			$^\circ\text{C}$
Operating Junction Temperature	$T_J$	-55 to +150			$^\circ\text{C}$

#### 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 with  $0.47 \times 0.47''$  (12×12mm) Copper Pads.

**RATING AND CHARACTERISTIC CURVES (GBP206 THRU GBP210)**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

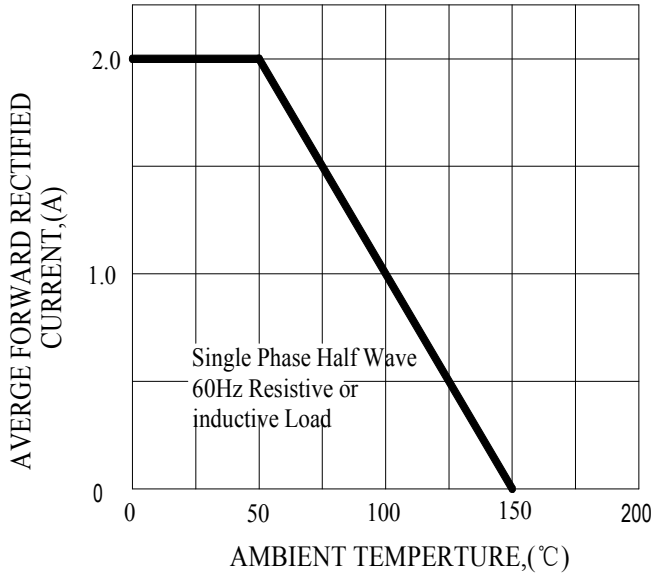


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

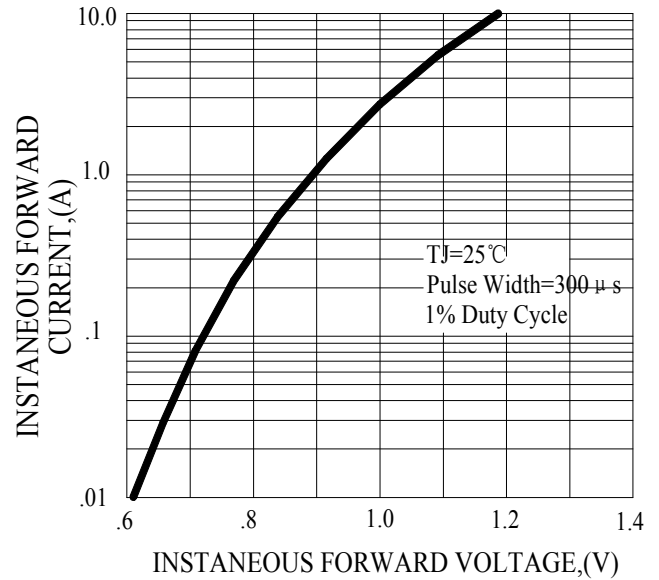


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

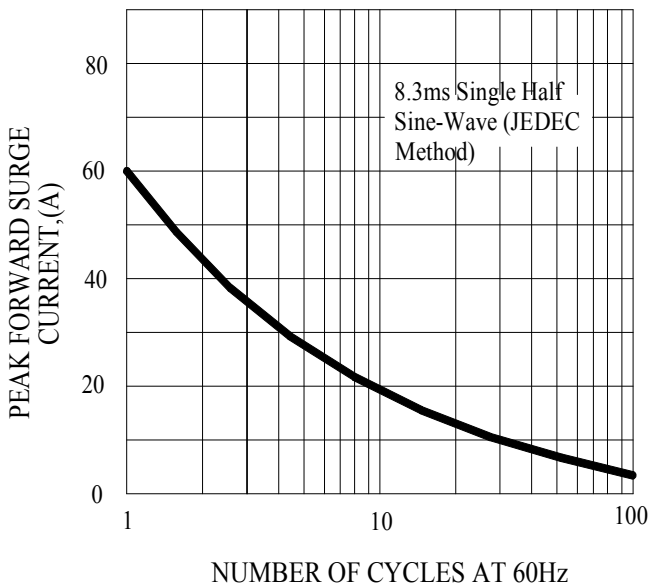
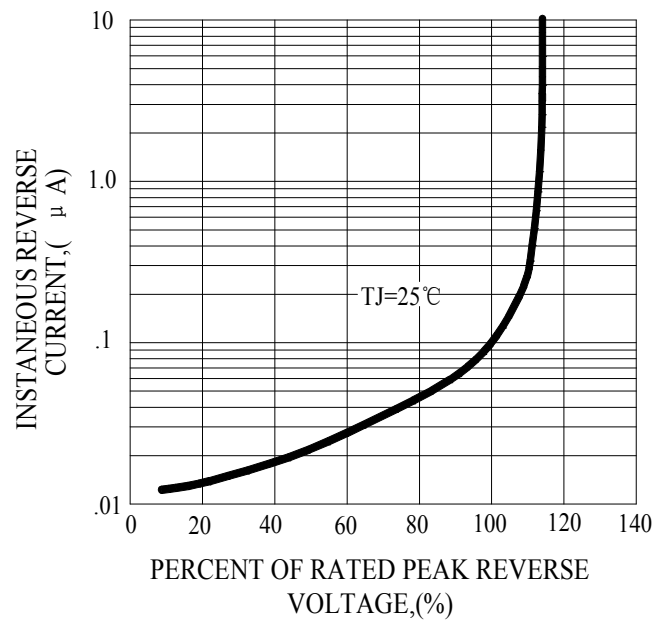
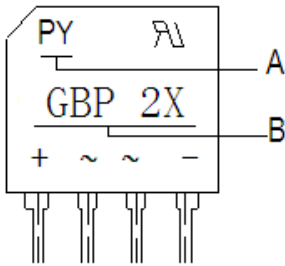


FIG.4-TYPICAL REVERSE CHARACTERISTICS



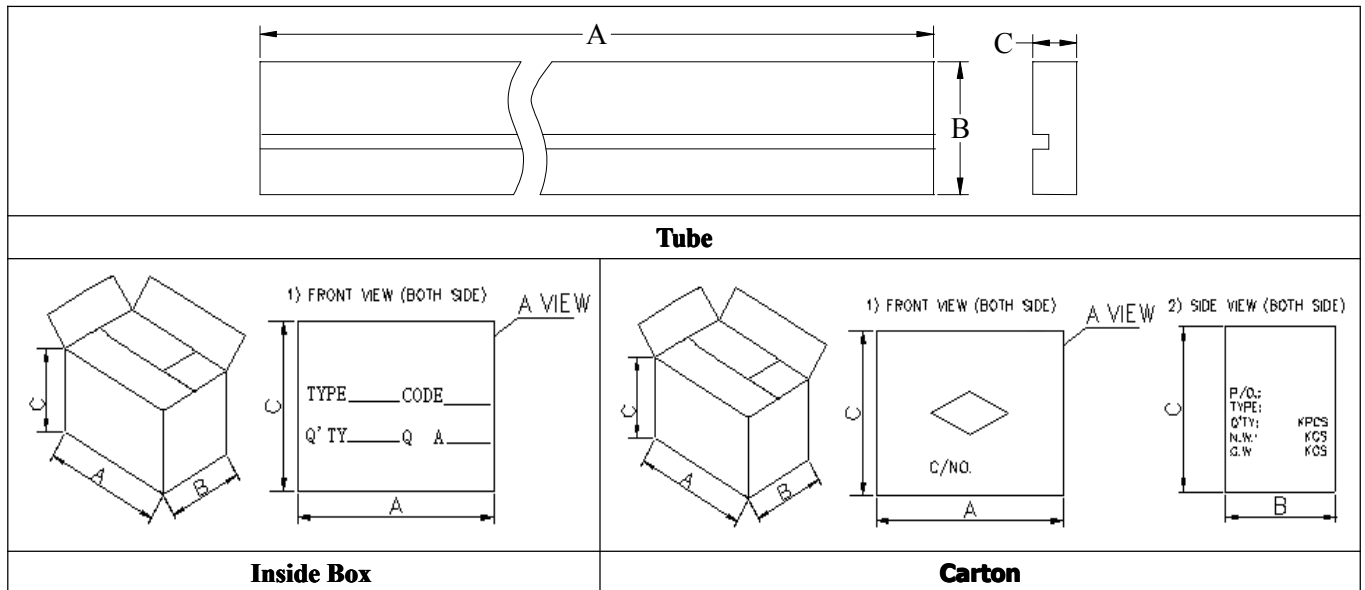
## Marking and packaging illustration

### 1、 Marking



SYMBOL	Explanation
<b>A</b>	<b>Trademark</b>
<b>B</b>	<b>Product Name,X:06,08,10</b>

### 2、 2、 Packaging



OUTLINE	A (mm)	B (mm)	C (mm)
Tube	390±1	28.8±1	6.1±1
Inner box	395±3	40±3	150±3
Carton	420±5	240±5	160±5

COUNT	TUBE (PCS)	BOX (PCS)	CARTON (PCS)
GBP	25	625	6250

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