GBP410R

SINGLE PHASE4.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

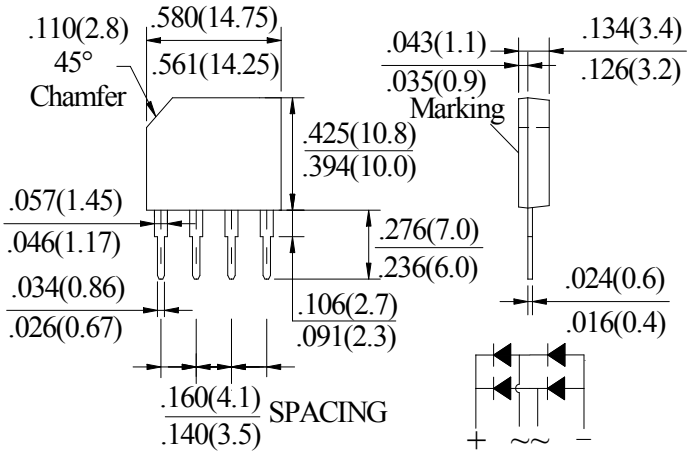
FEATURE

. UL Listed Under Recognized Component Index, File Number E338195
. Glass passivated chip junctions
. High case dielectric stength
. Low Reverse Leakage Current
. High surge current capability
. Ideal for Printed Circuit Board Applications

MECHANICAL DATA

. Case: GBP
. Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
. Terminals: Pure tin plated, Lead free. Leads solderable per MIL-STD-750, Method 2026.
. Polarity: Marked on body
. Weight: 1.42 grams
. Mounting position: Any

GBP



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	GBP410R	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC blocking Voltage	V_{DC}	1000	V
Maximum Average Forward (with heatsink Note2) Rectified Current @ T_C=100°C(without heatsink)	$I_{F(AV)}$	4.0 2.0	A
Peak Forward Surge Current @ T_J=25°C 8.3ms single half sine-wave @ T_J=125°C	I_{FSM}	135 120	A
Peak Forward Surge Current @ T_J=25°C 1.0ms single half sine-wave @ T_J=125°C	I_{FSM}	270 240	A
Maximum Forward Voltage @ 4.0A DC Drop per element @ 2.0A DC	V_F	1.1 1.0	V
Maximum DC Reverse Current @T_J =25°C at rated DC blocking voltage @T_J =125°C	I_R	5.0 500.0	μA
I^2t Rating for Fusing (t < 8.3ms)	I^2t	75.6	A^2Sec
Typical Junction Capacitance (Note 1)	C_J	24	pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	3.0	°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.Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

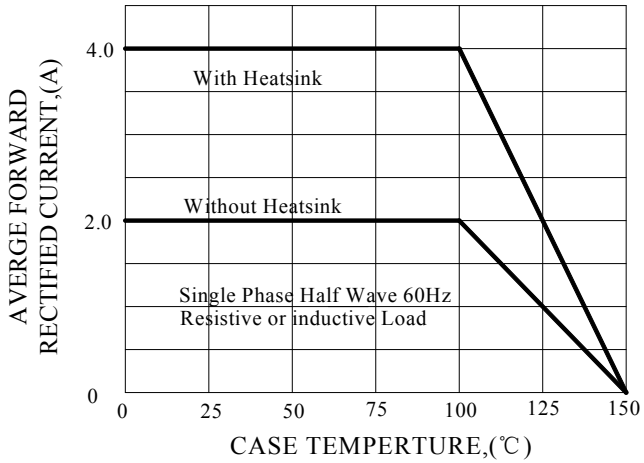


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

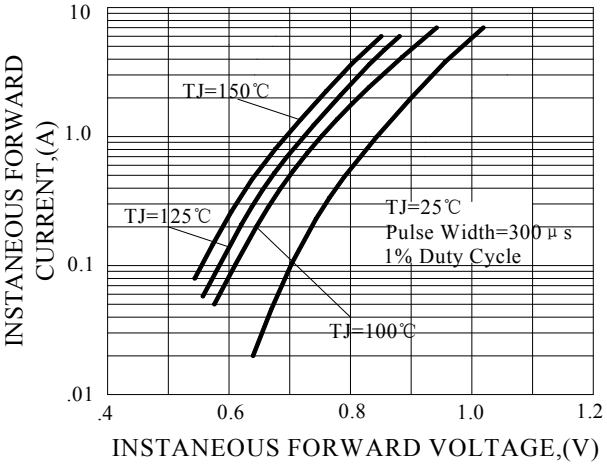


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

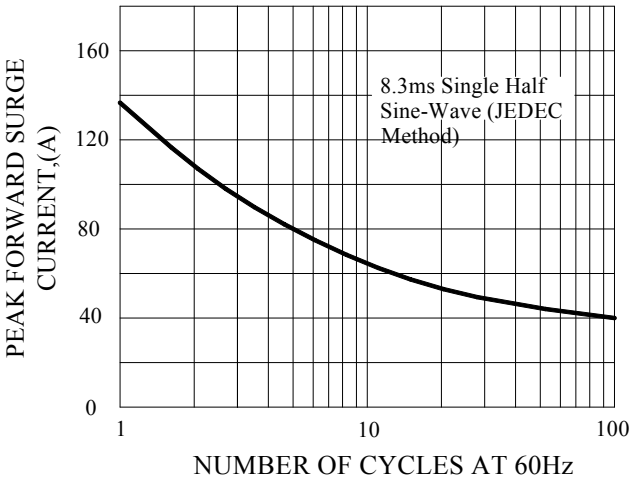


FIG.4-TYPIAL JUNCTION CAPACITANCE

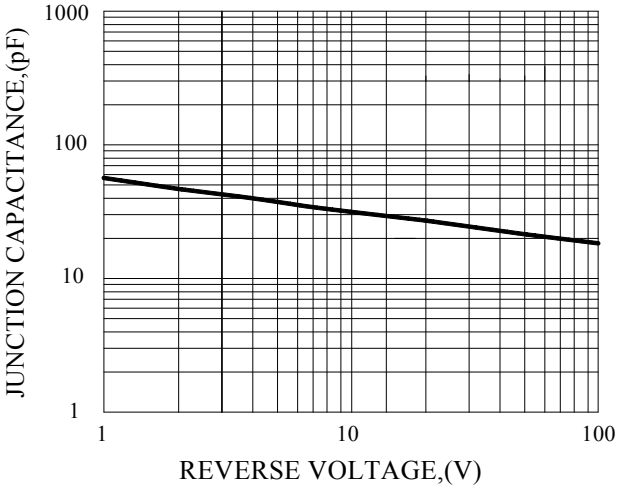
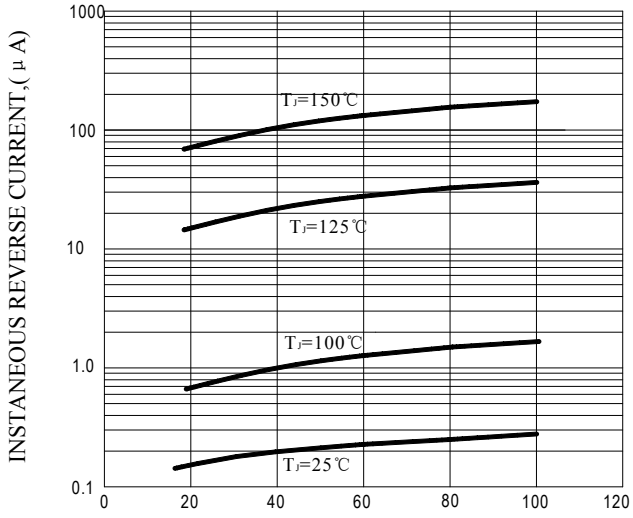
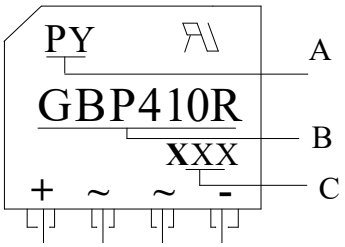


FIG.5-TYPICAL REVERSE CHARACTERISTICS



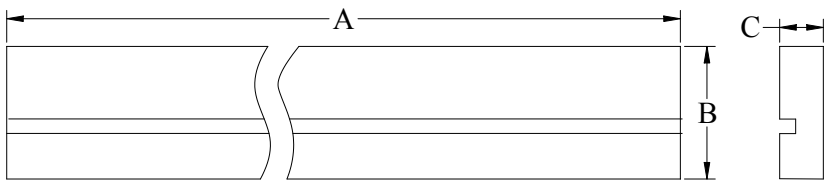
Marking and packaging illustration

1、Marking

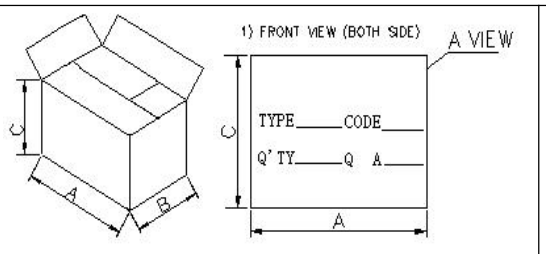


SYMBOL	Explanation
A	Trademark
B	Product Name
C	Date Code

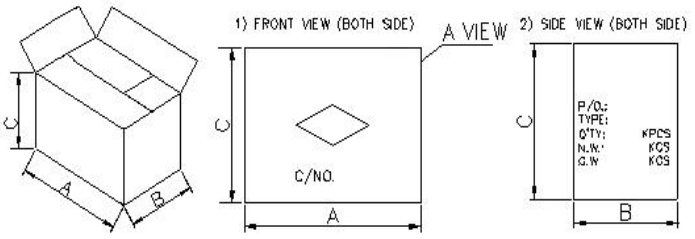
2、Packaging



Tube



Inside Box



Carton

OUTLINE	A (mm)	B (mm)	C (mm)
Tube	390±1	28.8±1	6.1±1
Inner box	395±3	155±3	155±3
Carton	420±5	180±5	325±5

COUNT	TUBE (PCS)	BOX (PCS)	CARTON (PCS)
GBP	25	2500	5000