

GBJ2506P

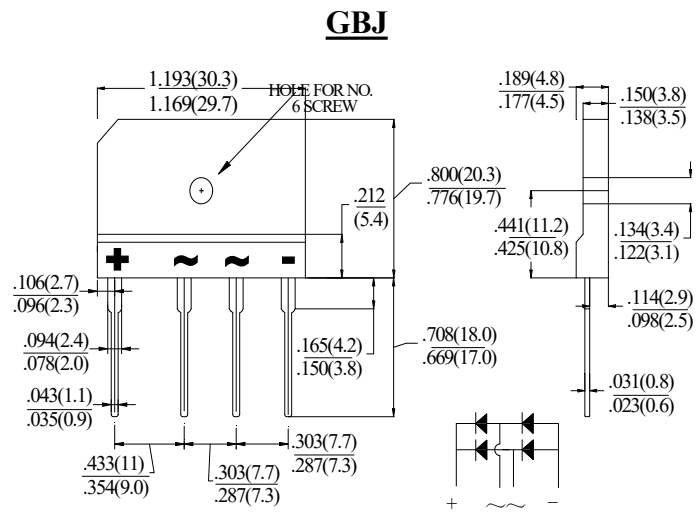
SINGLE PHASE 25.0AMPS.GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURE

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

MECHANICAL DATA

- Case: GBJ
- 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: Molded on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 in-lbs Maximum
- Weight: 6.6grams



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	GBJ2506P	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 (with heatsink Note2) Rectified Current @ $T_C=100^{\circ}C$ (without heatsink)	$I_{F(AV)}$	25.0 4.2	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load	I_{FSM}	350	A
Maximum Forward Voltage @25.0A DC	V_F	1.0	V
Drop per element @12.5 A DC		0.92	
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at rated DC blocking voltage @ $T_J=125^{\circ}C$	I_R	10.0 500.0	μA
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	510	A^2Sec
Typical Junction Capacitance (Note 1)	C_J	280	pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	2.0	$^{\circ}C/W$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}C$
Operating Junction Temperature	T_J	-55 to +150	$^{\circ}C$

Note:

- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Device mounted on 250mm x 250mm x 2.0mm Aluminum Plate Heatsink.

RATING AND CHARACTERISTIC CURVES (GBJ2506P)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

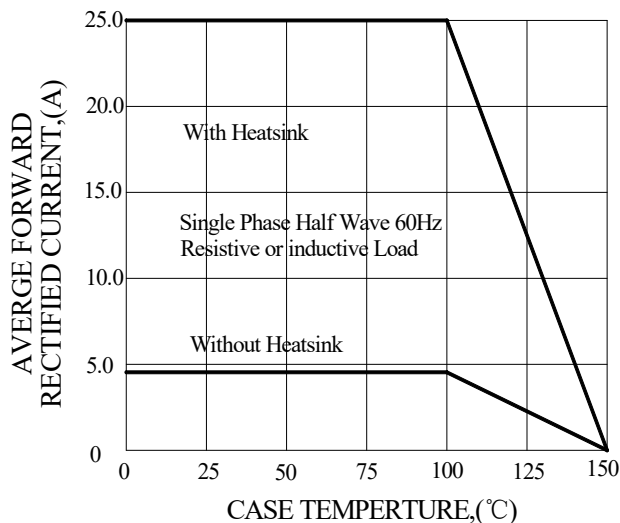


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

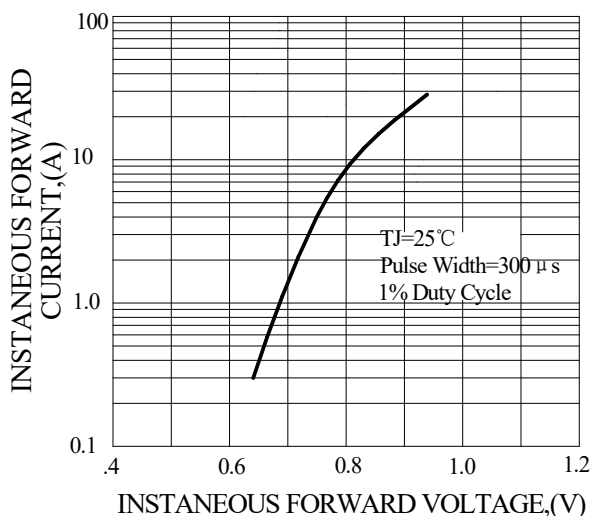


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

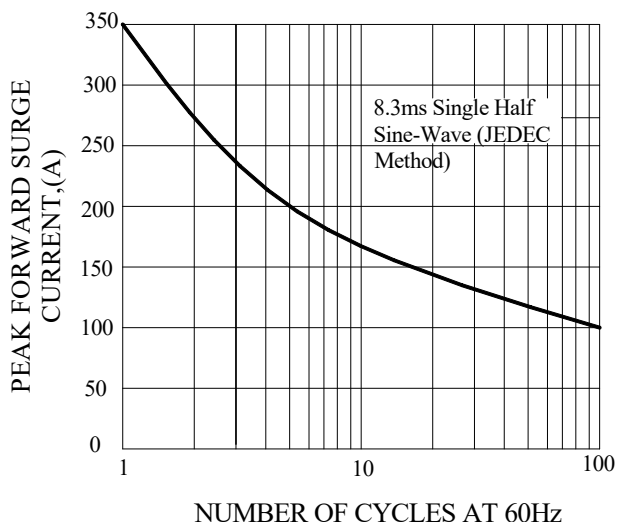


FIG.4-TYPICAL JUNCTION CAPACITANCE

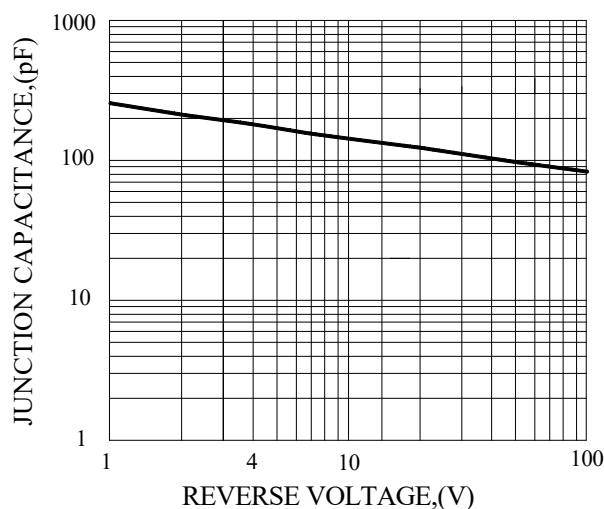
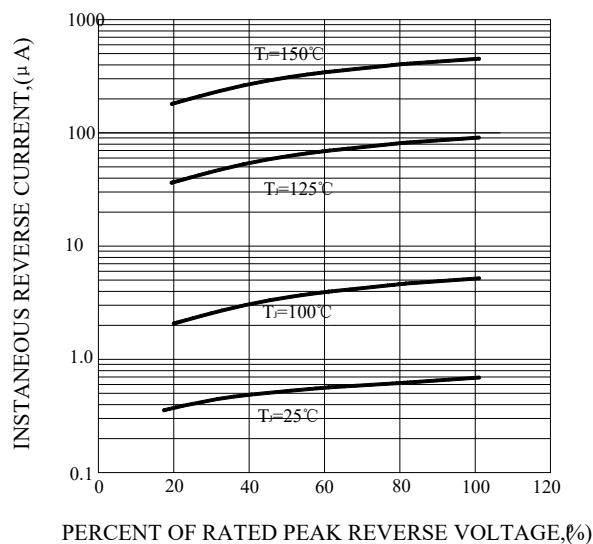
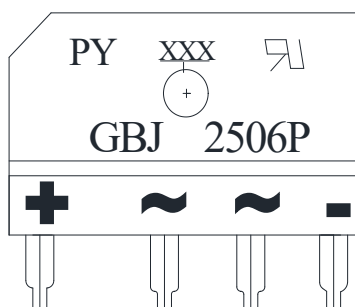


FIG.5-TYPICAL REVERSE CHARACTERISTICS



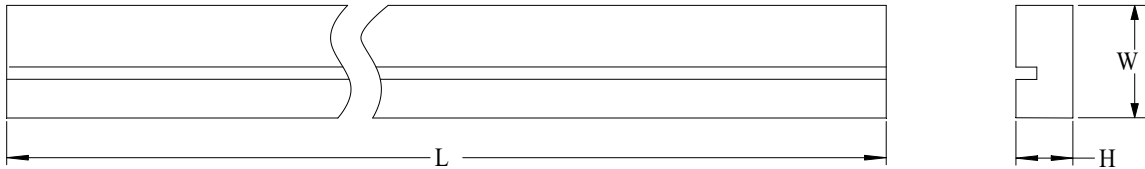
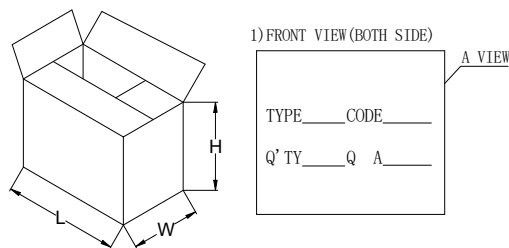
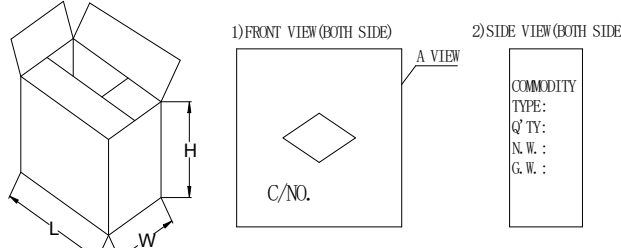
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	UL Mark
B	Trademark
C	Product Name
D	Date Code

2、Packaging (B/P)

	
Tube	
	
Inside Box	Carton

OUTLINE	TUBE L×W×H(mm)	TUBE (PCS)	Inner BOX SIZE L×W×H(mm)	Inner BOX (PCS)	CARTON SIZE L×W×H(mm)	CARTON (PCS)
GBJ	530*42*8.3	16	540*90*100	320	550*210*300	1920