

EGBJ2506

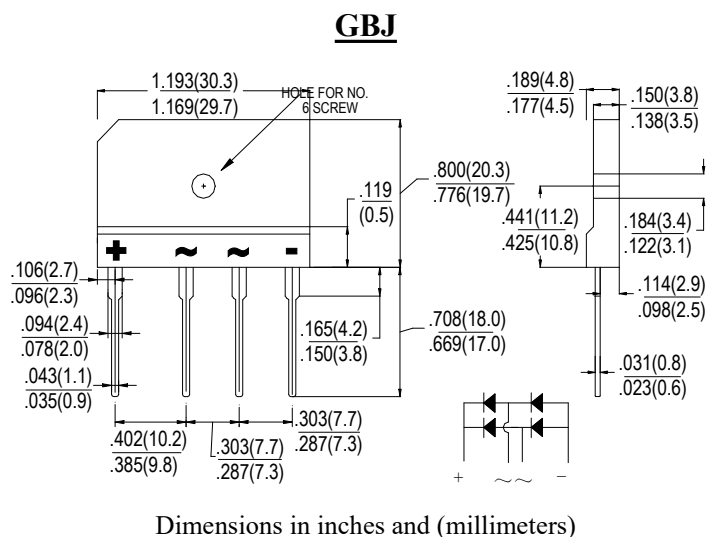
SINGLE PHASE 35.0AMPS. ULTRA FAST BRIDGE RECTIFIERS

FEATURE

- . 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	EGBJ2506		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°C(without heatsink)	$I_{F(AV)}$	25.0 4.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	300		A
Maximum Forward Voltage Drop per element at 12.5 A DC	V_F	Typ 1.5	Max 2.0	V
Maximum DC Reverse Current @T _J =25°C at rated DC blocking voltage @T _J =125°C	I_R	10.0 500.0		μA
I ² t Rating for Fusing (t < 8.3ms)	I^2t	373.5		A ² Sec
Maximum Reverse Recovery Time (Note 1)	t_{rr}	75		nS
Maximum Junction Capacitance (Note 2)	C_J	300		pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	18		°C/W
	$R_{(JC)}$	0.8		
Storage Temperature	T_{STG}	-55 to +150		°C
Operating Junction Temperature	T_J	-55 to +150		°C

Note:

1. Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. $R_{(JA)}$: Without heatsink, free air; $R_{(JC)}$: Device mounted on 100mm x50mm x30mm Heatsink.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

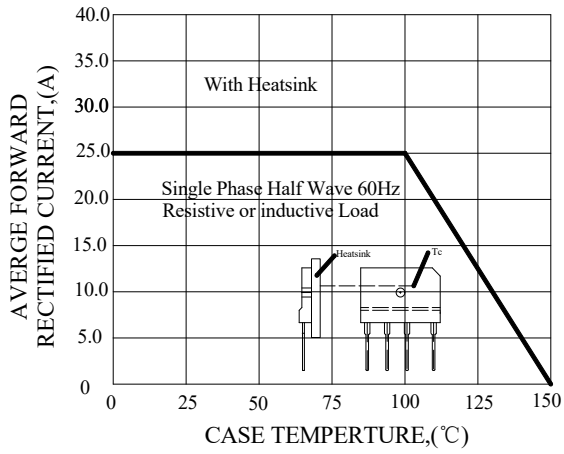


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

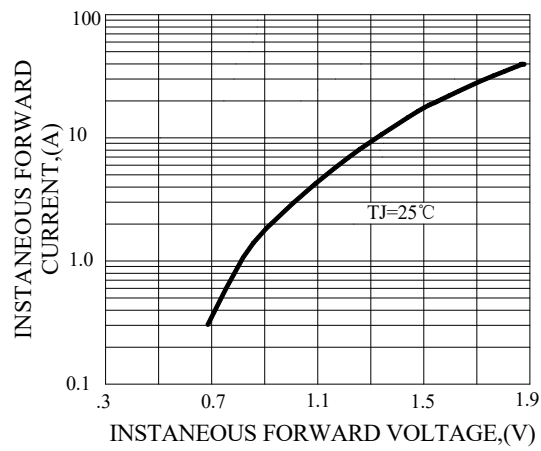


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

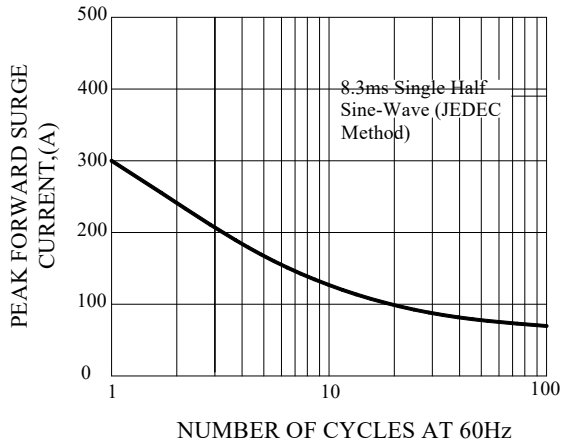


FIG.4-MAXIMUM JUNCTION CAPACITANCE

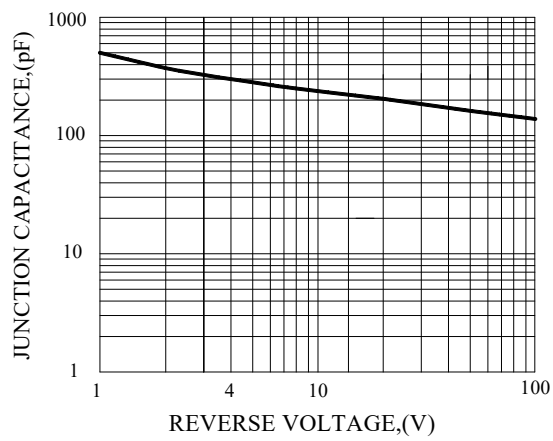
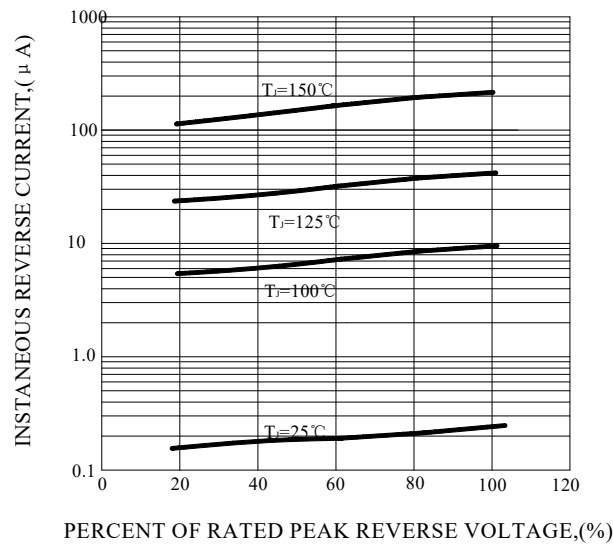
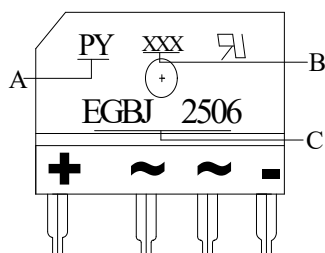


FIG.5-TYPICAL REVERSE CHARACTERISTICS



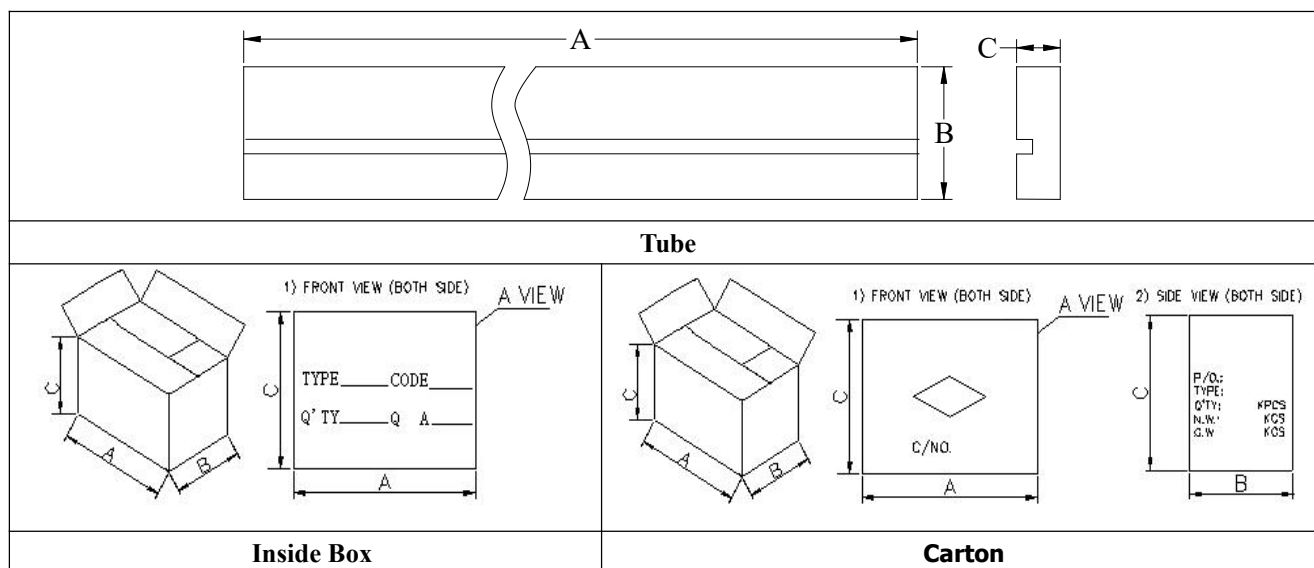
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	Trademark
B	Date Code
C	Product Name

2、Packaging (TUBE)



OUTLINE	A (mm)	B (mm)	C (mm)
Tube	520±1	42±1	8.3±1
Inner box	540±3	90±3	100±3
Carton	550±5	190±5	310±5

COUNT	TUBE (PCS)	BOX (PCS)	CARTON (PCS)
GBJ	16	320	1920