EGBU1506

SINGLE PHASE15.0AMPS. ULTRA FAST BRIDGE RECTIFIERS

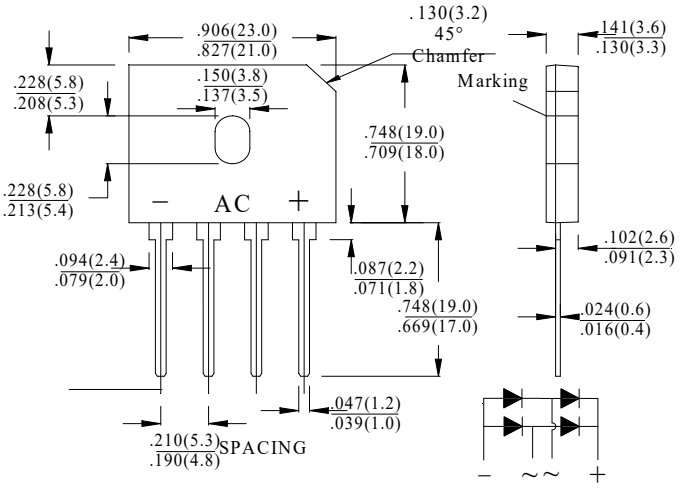
FEATURE

. 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 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
. RoHS 2.0 Compliant ;Halogen free

GBU



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	EGBU1506	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 Current @ T_C=100°C(with heatsink)	$I_{F(AV)}$	15.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	200	A
Maximum Forward Voltage Drop per element @7.5A DC	V_F	1.5	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	166	A^2Sec
Maximum Reverse Recovery Time (Note 1)	t_{rr}	50	nS
Typical Junction Capacitance (Note 1)	C_J	80	pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	22	°C/W
	$R_{(JC)}$	2.2	
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 150mm x 150mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

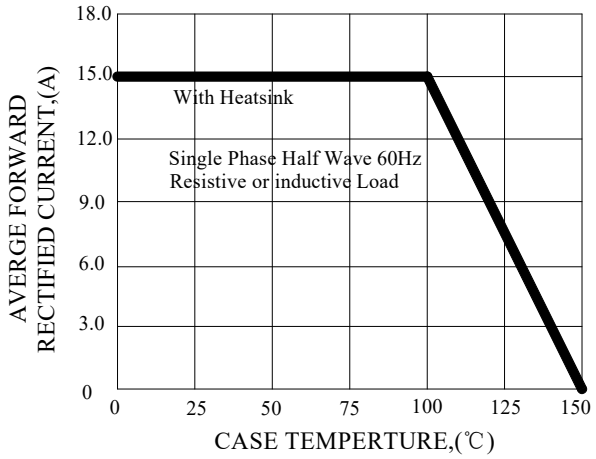


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

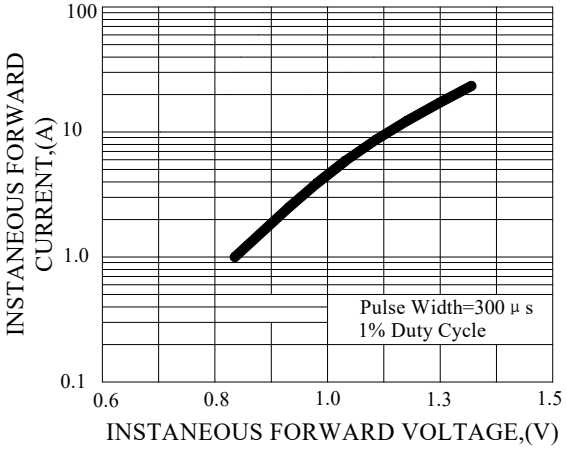


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

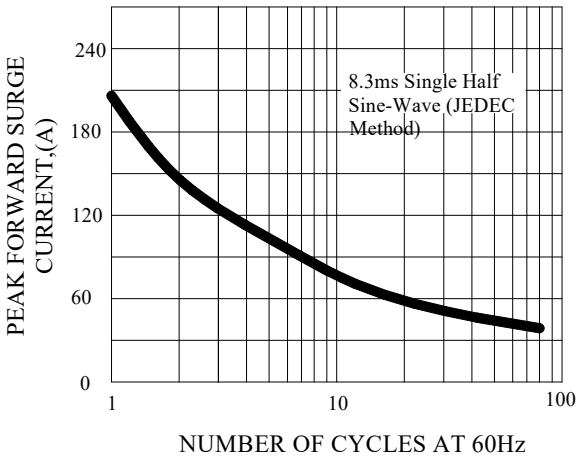


FIG.4-TYPIAL JUNCTION CAPACITANCE

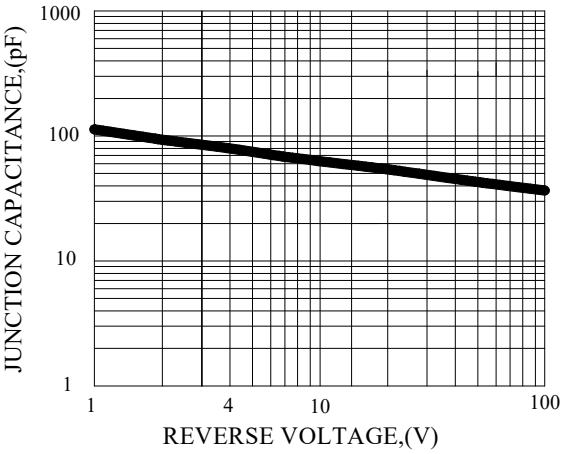
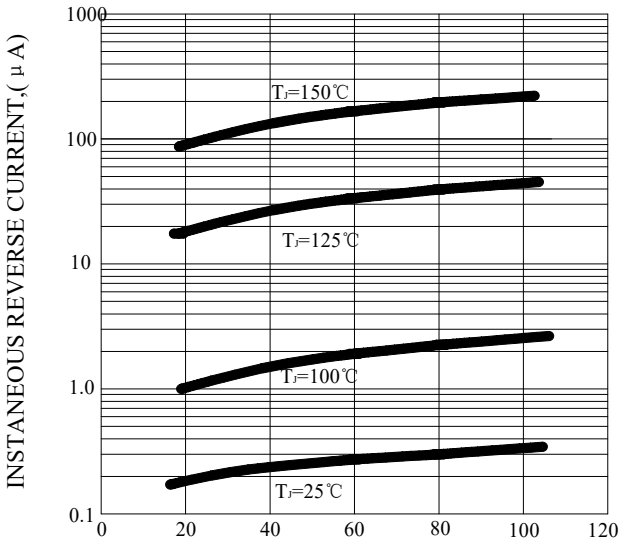
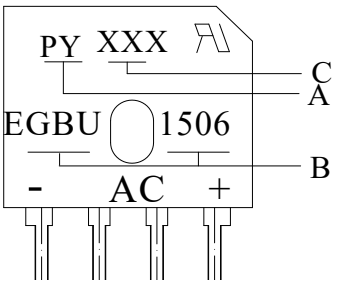


FIG.5-TYPICAL REVERSE CHARACTERISTICS



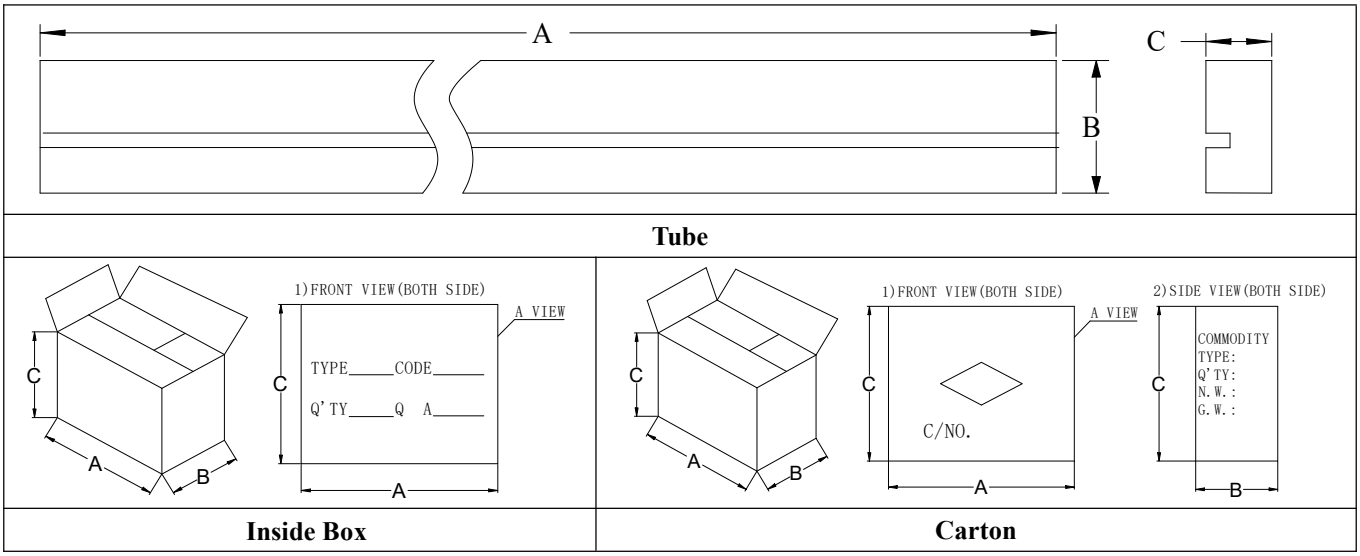
Marking and packaging illustration

1、Marking



SYMBOL	Explanation
A	Trademark
B	Product Name
C	Date code

2、Packaging



OUTLINE	A（mm）	B（mm）	C（mm）
Tube	470±1	41±1	7.0±1
Inner box	485±3	130±3	130±3
Carton	500±5	285±5	150±5
COUNT	**TUBE（PCS）**	**BOX（PCS）**	**CARTON (PCS)**
GBU	20	1000	2000