EGBU3504 THRU EGBU3506

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HORNBY ELECTRONIC

GLASS PASSIVATED SUPER FAST SINGLE-PHASE BRIDGE RECTIFIER

REVERSE VOLTAGE: **400 to 600 VOLTS**

FORWARD CURRENT: **35.0 AMPERE**

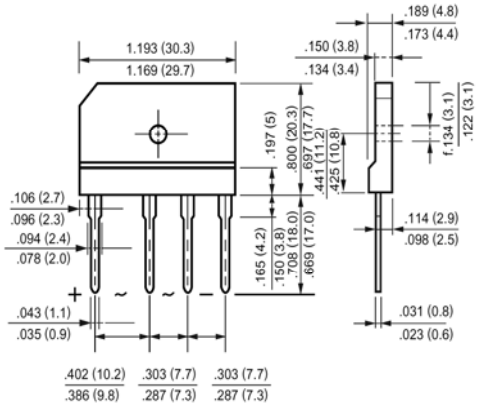
FEATURES

· Glass passivated chip junction
· Reliable low cost construction utilizing molded plastic technique
· Ideal for printed circuit board
· Low forward voltage drop
· Low reverse leakage current
· High surge current capability

MECHANICAL DATA

Case: Molded plastic, GBJ
Epoxy: UL 94V-O rate flame retardant
Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
Mounting position: Any
Mounting Torque: 8.17 inches-lbs max.

GBJ



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	*EGBJ3504*	*EGBJ3506*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	**Volts**
Maximum RMS Voltage	V_{RMS}	280	420	**Volts**
Maximum DC Blocking Voltage	V_{DC}	400	600	**Volts**
Maximum Average Forward Rectified Current with Heatsink at T_C=90℃	$I_{(AV)}$	35		**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	250		**Amp**
Maximum Forward Voltage Drop per Element at 17.5A DC and 25℃	V_F	1.5	2.0	**Volts**
Maximum Reverse Current at T_A=25℃ at Rated DC Blocking Voltage T_A=125℃	I_R	10.0 500		**uAmp**
Typical Junction Capacitance (Note 1)	C_J	60		**pF**
Maximum Reverse Recovery Time (Note 2)	T_{RR}	50		**nS**
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	0.8		**℃/W**
Operating and Storage Temperature Range	T_J, Tstg	-55 to +150		**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I_{RR}=.25A.

3- Thermal Resistance fromn Junction to Case with Device Mounted on 300mm x 300mm x 1.6mmCu Plate Heatsink.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

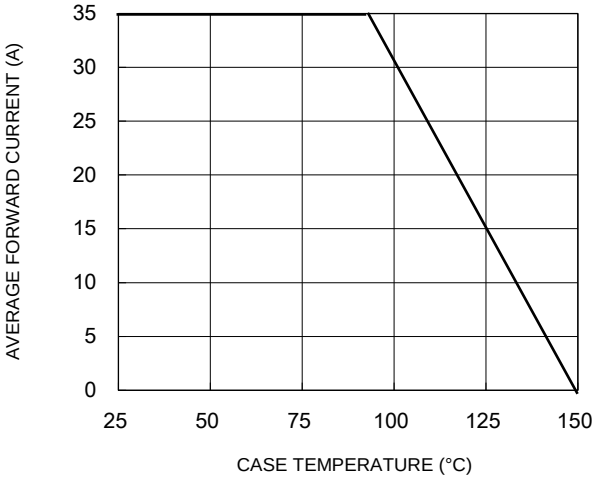

FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

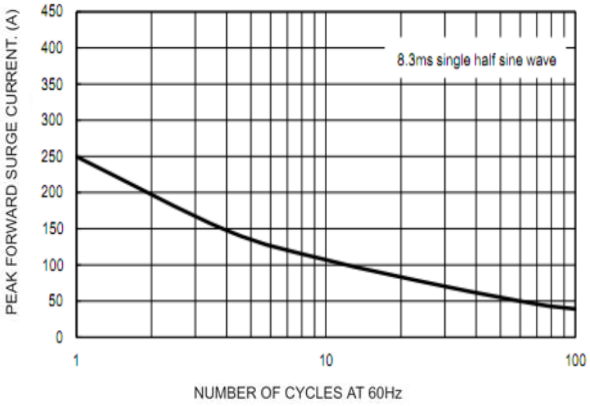

FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

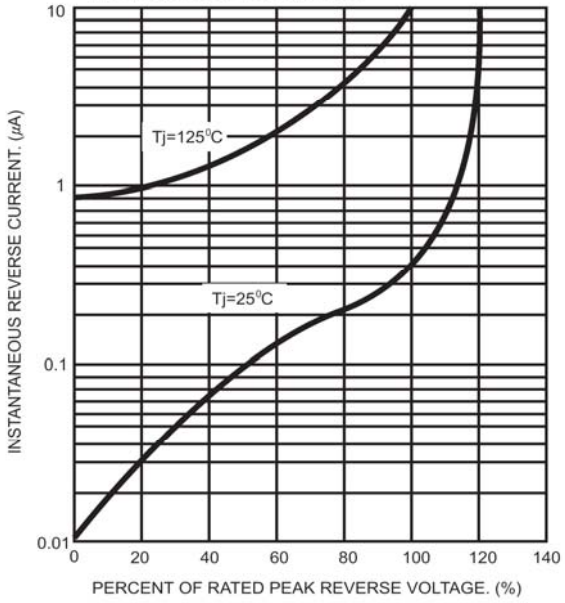

FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

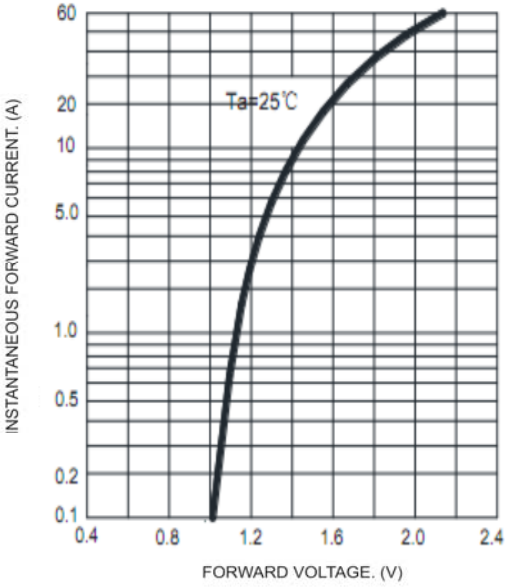

FIG.5- TYPICAL TRANSIENT THERMAL IMPEDANCE