SEMICONDUCTOR

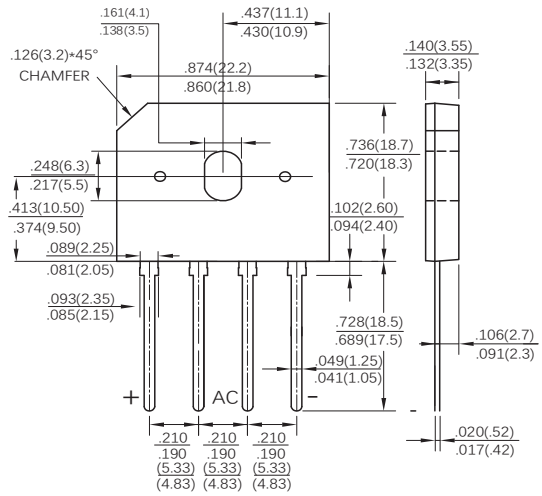
EGBU1506

FAST RECOVERY
GLASS PASSIVATED BRIDGE RECTIFIER
Reverse Voltage:600Volts
Forward Current:15.0 Amps

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability,Low forward voltage drop
- Soft recovery improves EMC performance
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

GBU



Back View

Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: GBU molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

TYPICAL APPLICATIONS

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase ,half wave , resistive or inductive load. For capacitive load,derate current by 20%.)

Parameters		Symbol	EGBU1506	Units
Maximum Reverse Peak Reverse Voltage		V_{RRM}	600	Volts
Maximum RMS Voltage		V_{RMS}	420	Volts
Maximum DC Blocking Voltage		V_{DC}	600	Volts
Maximum Average Forward Rectified Current, (See Fig 2)		$I_{F(AV)}$	15.0	Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	180	Amps
Rating for Fusing (t =8.3ms)		I^2t	134	A^2S
Maximum Instantaneous Forward Voltage at 7.5A DC		V_F	1.70	Volts
Maximum DC Reverse Current at rated DC blocking voltage	T_J=25℃	I_R	5	μA
	T_J=125℃		100	μA
Typical Junction Capacitance (Note 1)		C_J	65	pF
Typical thermal resistance (Note 2)	Junction-Ambient	$R_{\theta JA}$	25	℃/W
	Junction-Case	$R_{\theta JC}$	1.8	
Maximum reverse recovery time(Note3)		trr	35	ns
Operating junction and storage temperature range		T_J T_{STG}	-55 to +150	°C

NOTE: 1.Measured at 1MHz and applied reverse voltage of 4.0 Volts.
2 Unit mounted on 50mm x 50mm x 1.6mm copper plate heatsink
3.Test conditions: I_F=0.5A,I_R=1.0A,I_{RR}=0.25A.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

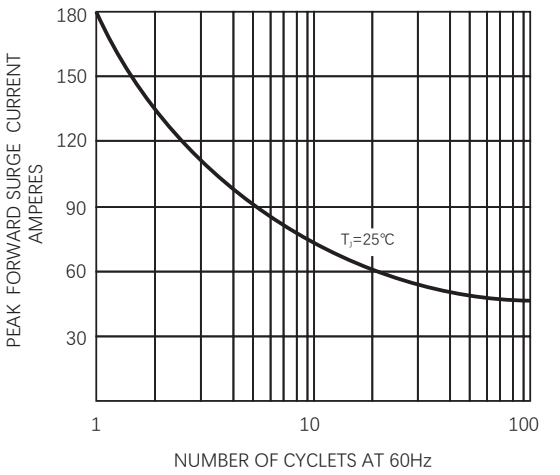


FIG.2 FORWARD CURRENT DERATING CURVE

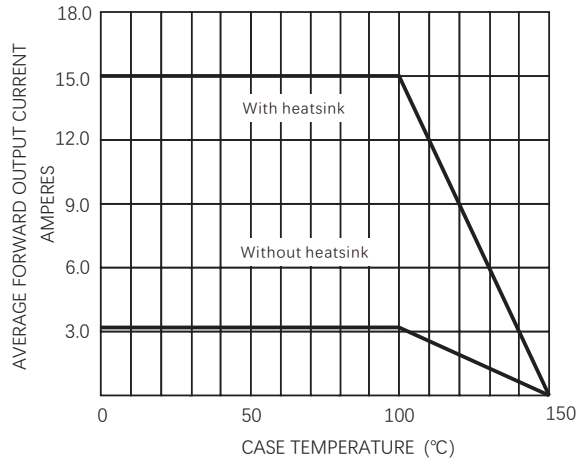


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

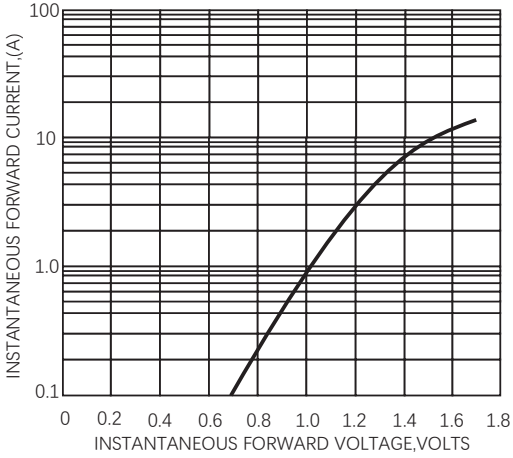
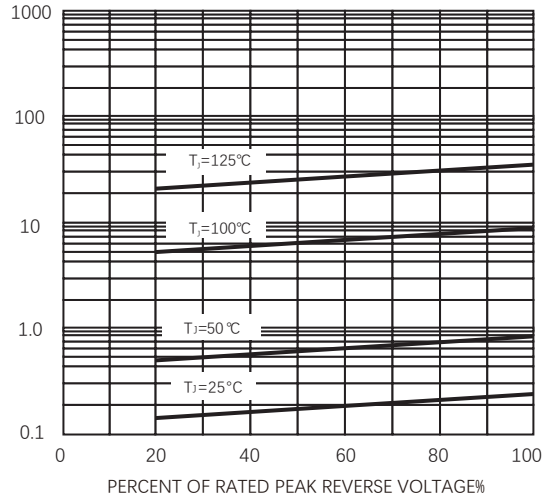


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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