SEMICONDUCTOR

RGBU1510

FAST RECOVERY
GLASS PASSIVATED BRIDGE RECTIFIER
Reverse Voltage:1000Volts
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

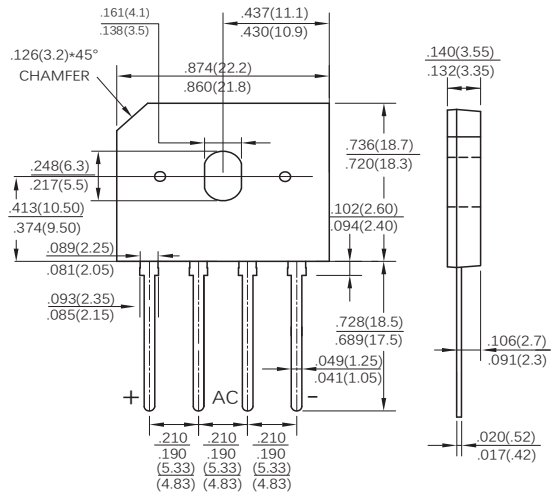
MECHANICAL DATA

- 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.

GBU



Back View

Dimensions in inches and (millimeters)

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	RGBU1510	Units
Maximum Reverse Peak Reverse Voltage		V_{RRM}	1000	Volts
Maximum RMS Voltage		V_{RMS}	700	Volts
Maximum DC Blocking Voltage		V_{DC}	1000	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}	200	Amps
Rating for Fusing (t =8.3ms)		I^2t	166	A^2S
Maximum Instantaneous Forward Voltage at 7.5A DC		V_F	1.25	Volts
Maximum DC Reverse Current at rated DC blocking voltage	T_A=25℃	I_R	5	μA
	T_A=125℃		100	μA
Typical Junction Capacitance (Note 1)		C_J	70	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	500	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

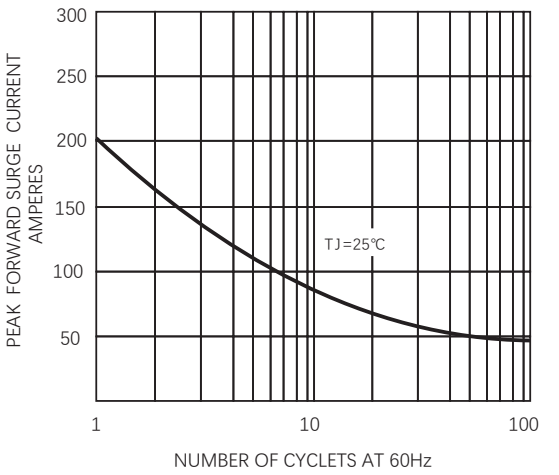


FIG.2 FORWARD CURRENT DERATING CURVE

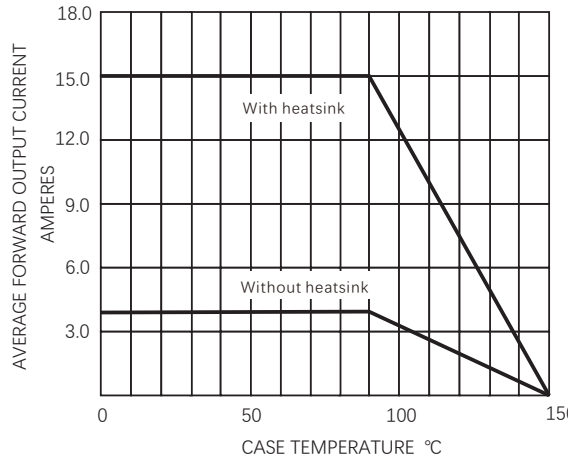


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

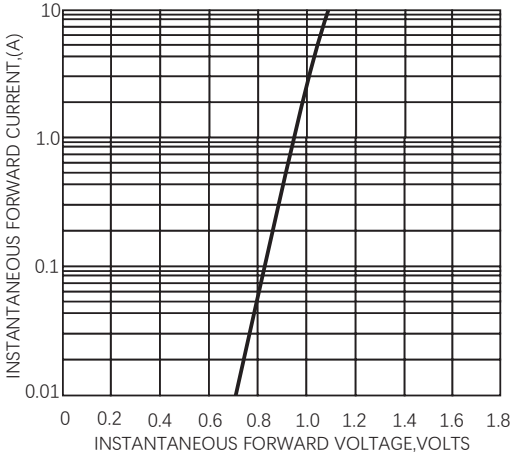
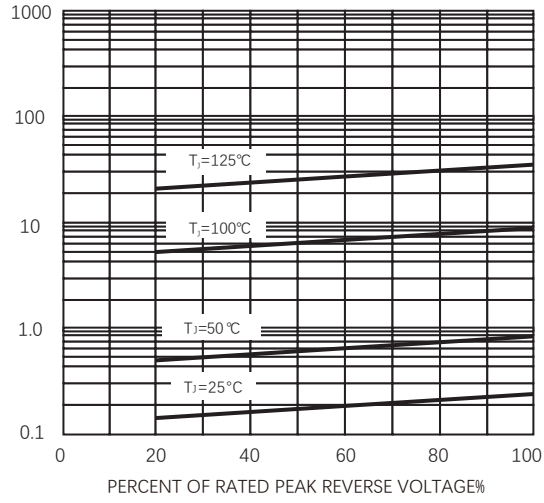


FIG.4 -TYPICAL REVERSE CHARACTERISTICS



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