

RBU801M **THRU** RBU807M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

FEATURES

- * Low leakage
- * Low forward voltage
- * Ideal for printed circuit boards
- * Surge overload rating: 200 amperes peak
- * Mounting position: Any
- * High forward surge current capability

MECHANICAL DATA

- * UL listed the recognizde component dinrectory file # E252754
- * Epoxy: Device has UL flammability classification 94V-O



RBU

Please See Page 3 for Dimension

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	RBU801M	RBU802M	RBU803M	RBU804M	RBU805M	RBU806M	RBU807M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_C = *75$ °C (Note 4)	lo	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	FSM 200					Amps		
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	3.4							°C/W
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	26							
Operating and Storage Temperature Range	T _J , T _{STG}	J, T _{STG} -55 to + 150						٥C	

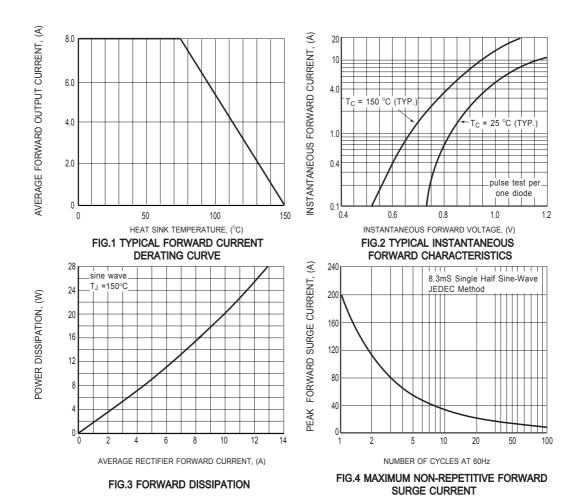
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RBU801M	RBU802M	RBU803M	RBU804M	RBU805M	RBU806M	RBU807M	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	- I _R	2.0							
	@T _A = 125°C					500				uAmps

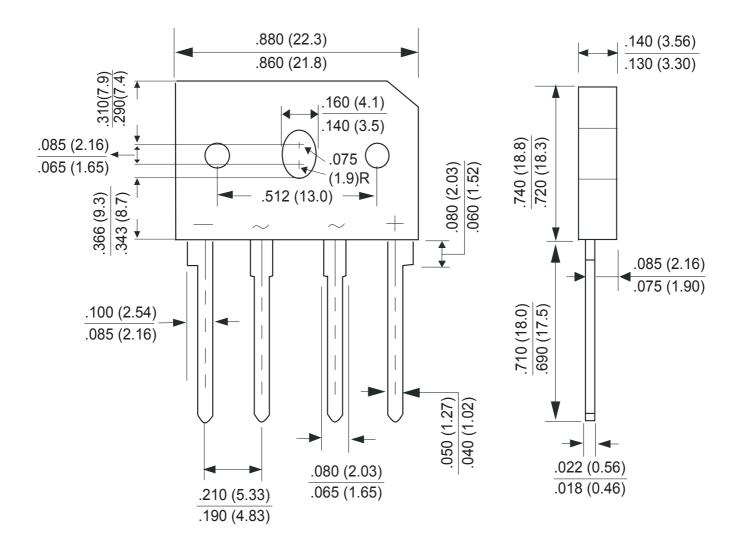
NOTES: 1. Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Equivalent to Vishay's GBU8 Series.
4. "*" Heat Sink Temperature.

2008-08

RATING AND CHARACTERISTICS CURVES (RBU801M THRU RBU807M)



Dimensions in inches and (millimeters)



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