

RBU1001M THRU RBU1007M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 10.0 Ampere

FEATURES

- * Low leakage
- * Low forward voltage
- * Silver-plated copper leads
- * Surge overload rating: 200 amperes peak
- * Mounting position: Any

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

TEW REASE **RBU** .512 (13.0) .085 (2.16) .100 (2.54) Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ 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)

MAXIMUM RATINGS (@ 1A-23 C utiless otherwise noted)									
RATINGS	SYMBOL	RBU1001M	RBU1002M	RBU1003M	RBU1004M	RBU1005M	RBU1006M	RBU1007M	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 = *100 °C (Note 4)	I ₀	10.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200						Amps	
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	2.3							°C/W
Typical Thermal Nesistance (Note 1)	$R_{\theta JA}$	26							
Operating and Storage Temperature Range	T _J , T _{STG}	G -55 to + 150						٥C	

$\textbf{ELECTRICAL CHARACTERISTICS}(@T_A = 25 \ ^{\circ}C \ unless \ otherwise \ noted)$

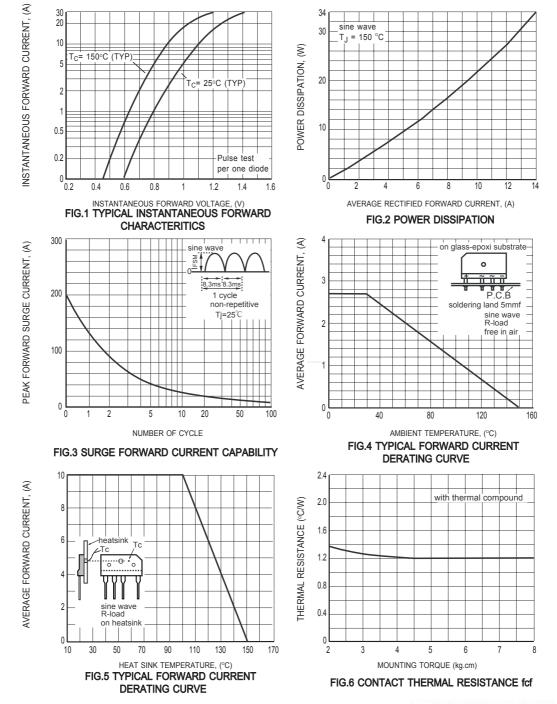
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CHARACTERISTICS		SYMBOL	RBU1001M	RBU1002M	RBU1003M	RBU1004M	RBU1005M	RBU1006M	RBU1007M	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC			1.1						Volts	
	@T _A = 25°C	- I _R	2.0							
	@T _A = 100°C					100				μAmps

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 GBU10 Series.
 4. "*" Heat Sink Temperature.

2006-12

RATING AND CHARACTERISTICS CURVES (RBU1001M THRU RBU1007M)





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