

RBU401M **THRU** RBU407M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Ampere

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 130 amperes peak
- * Mounting position: Any

MECHANICAL DATA

- * UL listed the recognized component directory, file #E252754
- * Epoxy: Device has UL flammability classification 94V-O

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%.

EW REASE RBU .085 (2.16) Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	RBU401M	RBU402M	RBU403M	RBU404M	RBU405M	RBU406M	RBU407M	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 _A = 50°C	I _O	4.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	130							Amps
Typical Junction Capacitance (Note 3)	CJ	40							pF
Tunical Thermal Desistance (Note 1)	R _θ JC	4.2							°C/W
Typical Thermal Resistance (Note 1)	R _θ JA	22							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

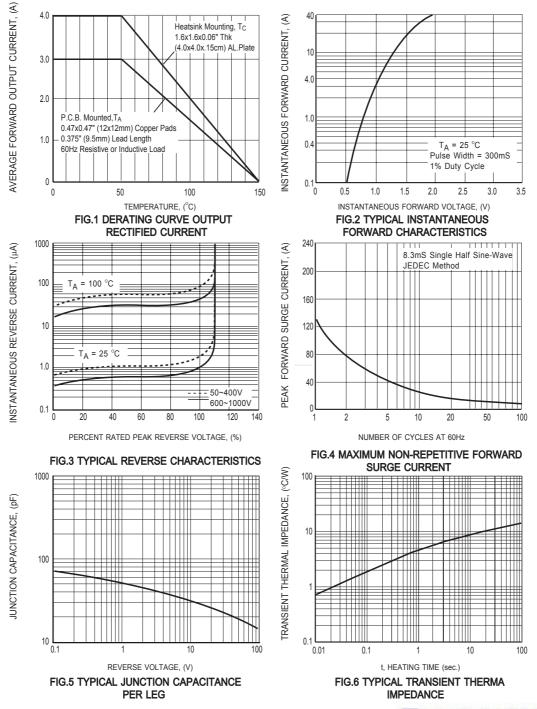
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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CHARACTERISTICS		SYMBOL	RBU401M	RBU402M	RBU403M	RBU404M	RBU405M	RBU406M	RBU407M	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC		V _F	1.1							Volts
Maximum DC Reverse Current @TA = 25°C		la la	2.0							
at Rated DC Blocking Voltage	@T _Δ = 125°C	ir ir				500				μAmps

Thermal Resistance : Heat-sink case mounted or if PCB mounted.
"Fully ROHS compliant", "100% Sn plating (Pb-free)".
Measured at 1MHz and applied reverse voltage of 4.0 voltage.
Equivalent to Vishay's GBU4 Series.

2006-12

RATING AND CHARACTERISTICS CURVES (RBU401M THRU RBU407M)





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