



SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

FEATURES

GEN FF

- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capabitity
- * High reliability
- * Guard ring construction on dice
- * Anti-ESD

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Mounting position: Any
- * Weight: 0.01 gram (Approx.)

resistive or inductive load.

* Flat lead frame



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

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 $T_C = *75 ^{\circ}C$ (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}	200					Amps		
Current Squarad Time	1²t	165.9						A ² /Sec	
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	3.4							°C∕W
	R _{0JA}	26							0/11
Operating and Storage Temperature Range	TJ, T _{STG}	-55 to + 150					٥C		

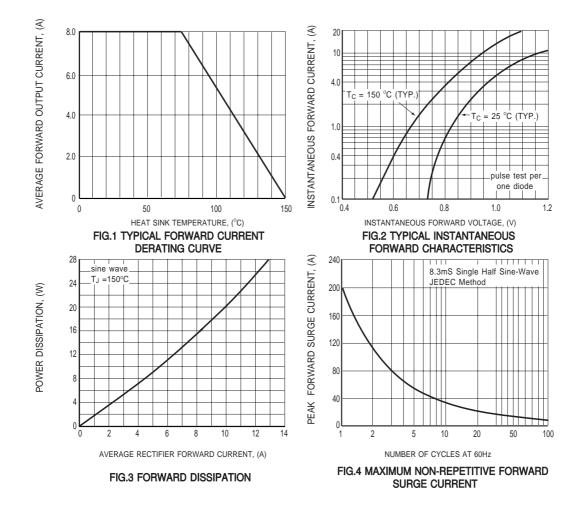
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERIST	SYMBOL	RBU801M	RBU802M	RBU803M	RBU804M	RBU805M	RBU806M	RBU807M	UNITS	
Maximum Instantaneous Forward Vo	VF	1.1					Volts			
Maximum DC Reverse Current	@T _A = 25°C	le le	2.0							
at Rated DC Blocking Voltage	@T _A = 125°C	ЧК				500				uAmps

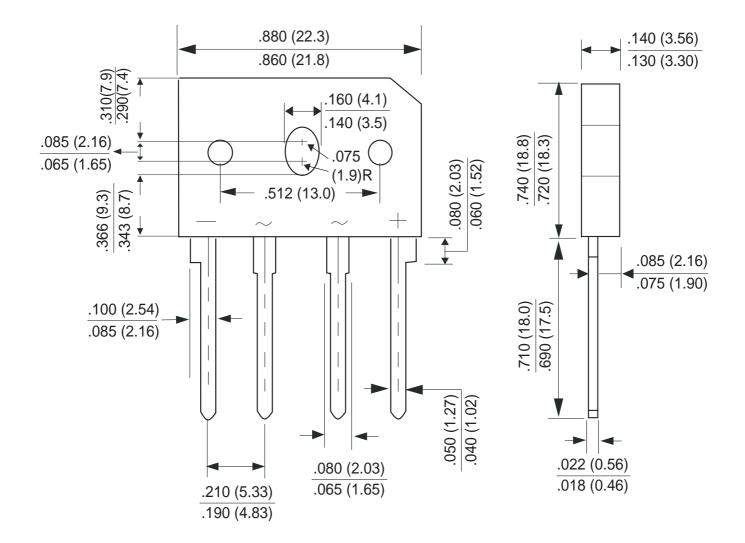
NOTES: 1. Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Equivalent to Vishay's GBU8 Series.
4. "*" Heat Sink Temperature.

5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

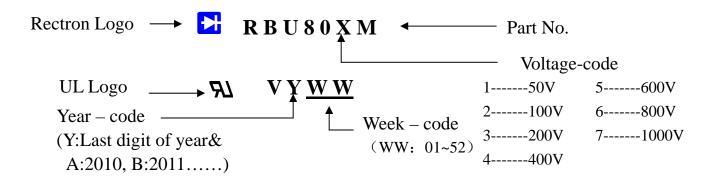
2010-05 REV:C



RATING AND CHARACTERISTICS CURVES (RBU801M THRU RBU807M)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	ACKING CODE EA PER BOX		CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
RBU	-B	450	240*239*35	502*251*126	2,700	13.00	

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)	
RBU	-C	1,000	490*135*110	510*293*131	2,000	13.62	

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