



## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

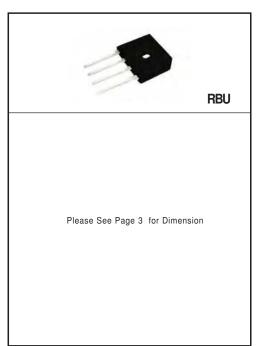
VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes

### **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 °C ambient temperature unless otherwise specified. resistive or inductive load.

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

RATINGS	SYMBOL	RBU401M	RBU402M	RBU403M	RBU404M	RBU405M	RBU406M	RBU407M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_A = 50^{\circ}C$	Ι <sub>Ο</sub>	4.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	130					Amps		
Typical Current Squarad Time	1²t	70.1					A <sup>2</sup> /Sec		
Typical Junction Capacitance (Note 3)	CJ	40						pF	
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	4.2							°C/W
Typical memial nesistance (NULE T)	$R_{\theta JA}$	22							· U/ W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150					° C		

ELECTRICAL CHARACTERISTICS (@T<sub>A</sub>=25 °C unless otherwise noted)

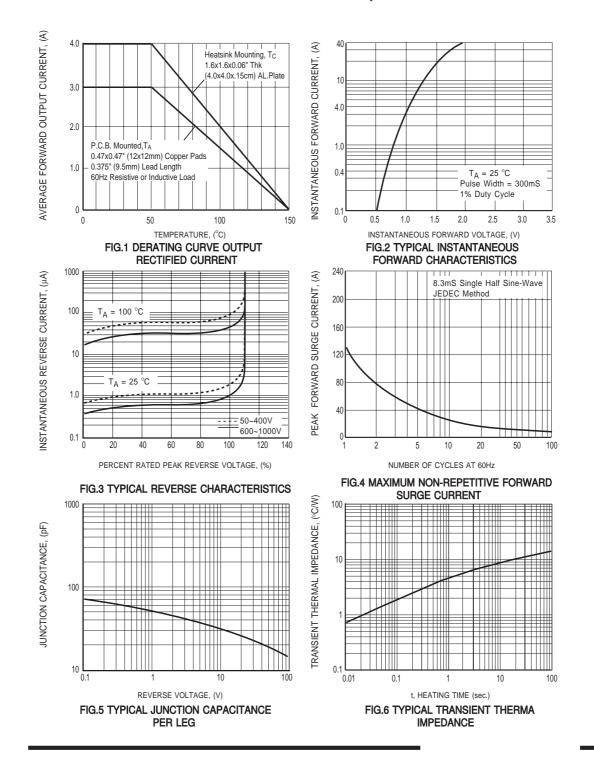
CHARACTERIST	SYMBOL	RBU401M	RBU402M	RBU403M	RBU404M	RBU405M	RBU406M	RBU407M	UNITS
Maximum Instantaneous Forward Vo	VF	1.1						Volts	
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	L	5.0						
at Rated DC Blocking Voltage	@T <sub>A</sub> = 125°C	чК	500						uAmps

NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)". 3. Measured at 1MHz and applied reverse voltage of 4.0 voltage.

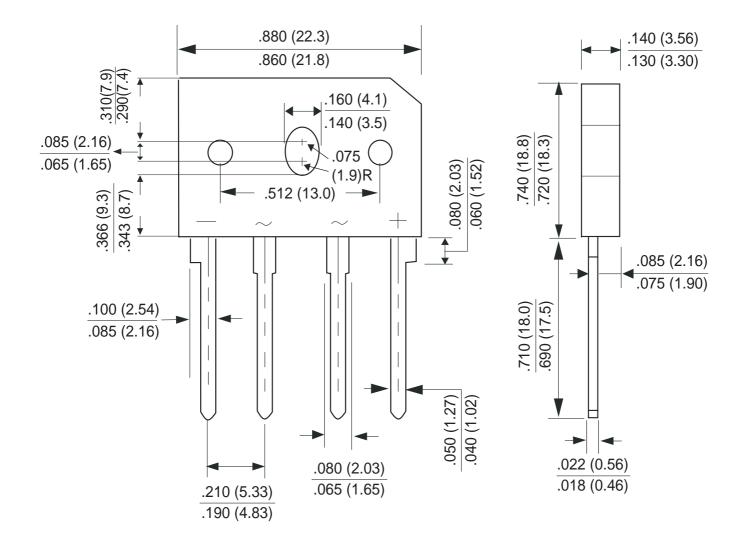
4. Equivalent to Vishay's GBU4 Series.

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

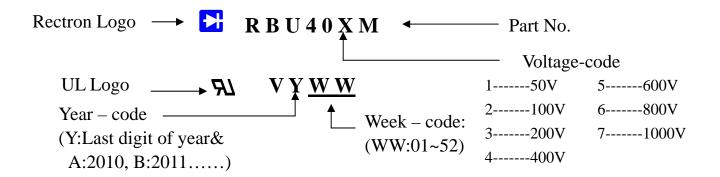
2010-05 REV:C



### RATING AND CHARACTERISTICS CURVES (RBU401M THRU RBU407M)



## **Marking Description**



# **CRECTRON** -

# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	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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