



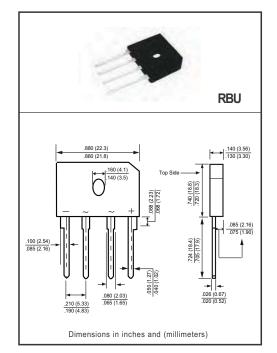
### SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER VOLTAGE RANGE 50 to 1000 Volts CURRENT 20 Amperes

#### **FEATURES**

- \* Low leakage
- \* Low forward voltage
- \* Surge overload rating : 300 amperes peak
- \* Mounting position: Any
- \* Ideal for printed circuit boards
- \* High forward surge current capability

#### **MECHANICAL DATA**

\* 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	RBU2001M	RBU2002M	RBU2003M	RBU2004M	RBU2005M	RBU2006M	RBU2007M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	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 <sub>C</sub> = 100°C (Note 4)	I <sub>O</sub>	20.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300						Amps	
Typical Current Squared Time	l <sup>2</sup> t	373.3					A <sup>2</sup> /S		
Isolation Voltage of case	Viso	2500						VAC	
Typical Thermal Resistance (Note 1)	R <sub>θ</sub> JC	1.5							⁰C/W
Typical memial resistance (NOLE T)	$R_{\theta JA}$	22							
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150					٥C		

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

CHARACTERISTI	SYMBOL	RBU2001M	RBU2002M	RBU2003M	RBU2004M	RBU2005M	RBU2006M	RBU2007M	UNITS	
Maximum Instantaneous Forward Vo	VF	1.1						Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	– I <sub>R</sub>				5.0				uAmps
	@T <sub>A</sub> =150 °C					2.0				mAmps

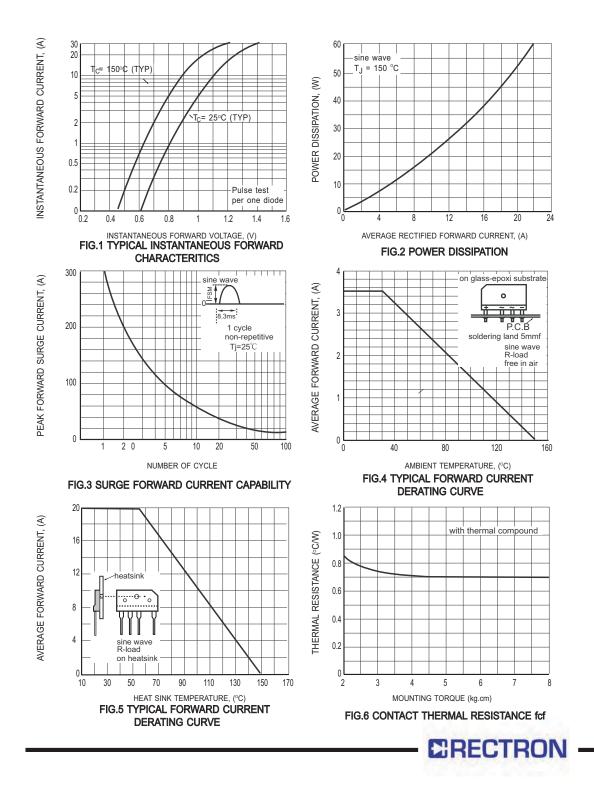
NOTES: 1.Thermal Resistance : Heat-sink case mounted or if PCB mounted. 2. "ROHScompliant"

"ROHS compliant"
Equivalent to Vishay's GBU12 . 5 Series.
Heat Sink Temperature.

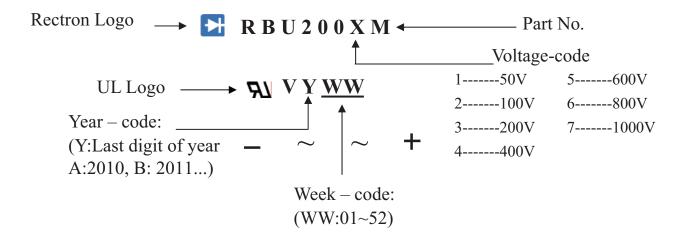
5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2018-10 REV: A





## **Marking Description**





# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

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



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