

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes

#### **FEATURES**

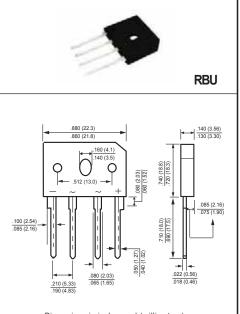
- \* Ideal for printed circuit board
- \* Surge overload rating: 150 amperes peak
- \* Mounting position: Any

#### **MECHANICAL DATA**

- $^{\ast}$  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. Single phase, half wave, 60 Hz, resistive or inductive load.



Dimensions in inches and (millimeters)

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

For capacitive load, derate current by 20%.

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 RSM Voltage	V <sub>RSM</sub>	150	200	300	500	700	900	1100	Volts
Maximum Average Forward Rectified Current at T <sub>C</sub> = 100°C	I <sub>O</sub>	4.0					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150				Amps			
Typical Current Squared Time	l <sup>2</sup> t	93.37				A <sup>2</sup> S			
Typical Junction Capacitance (Note 3)	CJ	CJ 40			pF				
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	4.2							°C/W
	$R_{\theta JA}$	22							0/10
Operating and Storage Temperature Range	TJ, TSTG	T <sub>J</sub> , T <sub>STG</sub> -55 to + 150				٥C			

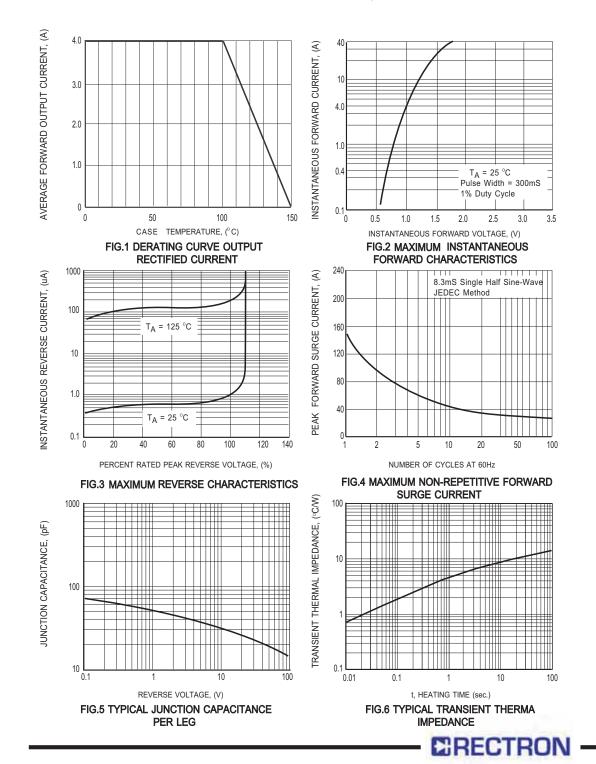
#### ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RBU401M	RBU402M	RBU403M	RBU404M	RBU405M	RBU406M	RBU407M	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC		VF	1.0						Volts	
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	- I <sub>R</sub>	1.0					uAmps		
at Rated DC Blocking Voltage	@T <sub>A</sub> = 125°C		200					uAmps		

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

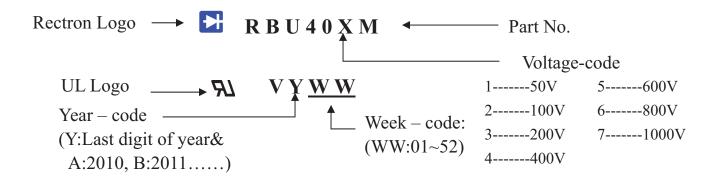
3. Measured at 1MHz and applied reverse voltage of 4.0 voltage.

2023-07 REV:E



## RATING AND CHARACTERISTICS CURVES (RBU401M THRU RBU407M)

# **Marking Description**





# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

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



	Revise History				
Rev	Content	Data			
D	Add Vrsm and Modify Ir 150 $^\circ\!\mathrm{C}$	2018-11-26			

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