

**SINGLE-PHASE GLASS PASSIVATED  
SILICON BRIDGE RECTIFIER**

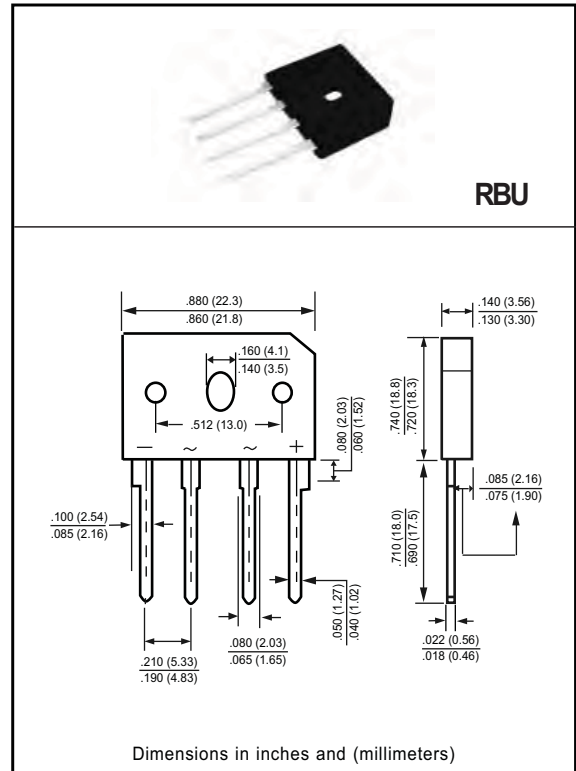
**VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes**

**FEATURES**

- \* Low leakage
- \* Low forward voltage
- \* Mounting position: Any
- \* Surge overload rating: 200 amperes peak
- \* Ideal for printed circuit boards
- \* High forward surge current capability

**MECHANICAL DATA**

- \* UL listed the recognized component directory, file #E94233
- \* 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.  
For capacitive load, derate current by 20%.

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

RATINGS	SYMBOL	RBU801M	RBU802M	RBU803M	RBU804M	RBU805M	RBU806M	RBU807M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Output Current at Tc = 75°C	I <sub>O</sub>	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	200							Amps
Typical Current Squared Time	I <sup>2</sup> t	167							A <sup>2</sup> /Sec
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	21							°C/W
	R <sub>θJC</sub>	2							
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150							°C

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

CHARACTERISTICS	SYMBOL	RBU801M	RBU802M	RBU803M	RBU804M	RBU805M	RBU806M	RBU807M	UNITS
Maximum Forward Voltage Drop per element at 8.0A DC	V <sub>F</sub>	1.0							Volts
Maximum Reverse Current at Rated	I <sub>R</sub>	0.5							uAmps
DC Blocking Voltage per element		500							

NOTE: 1. Units mounted in free air, no heatsink on P.C.B., 0.5x0.5" (12x12mm) copper pads, 0.375" lead length.  
2. \* ROHS compliant"

# RATING AND CHARACTERISTICS CURVES ( RBU801M THRU RBU807M )

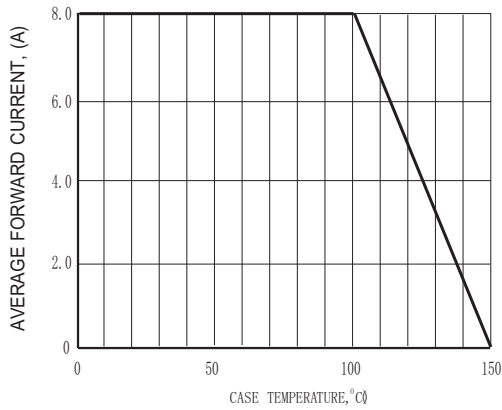


FIG. 1 TYPICAL FORWARD CURRENT DERATING CURVE

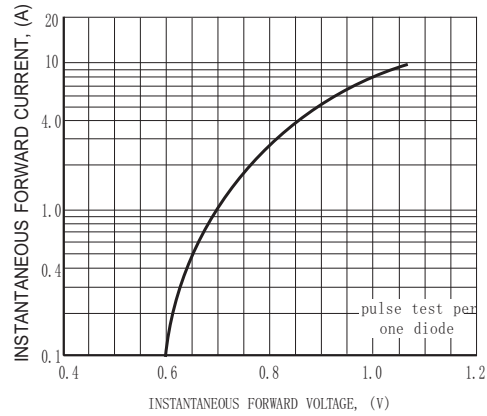


FIG. 2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

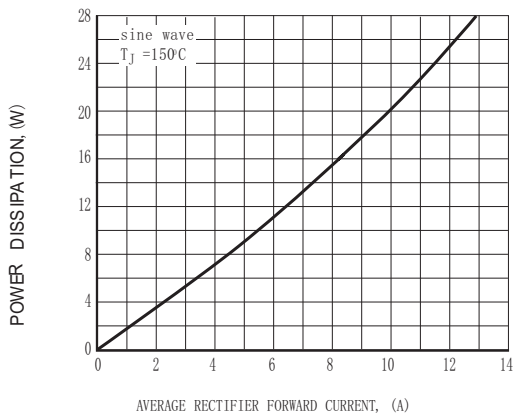


FIG. 3 FORWARD DISSIPATION

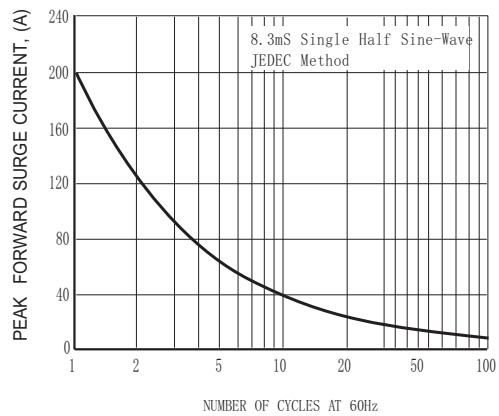


FIG. 4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

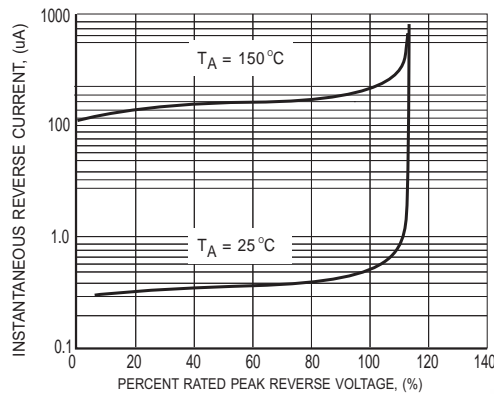


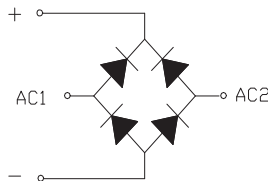
FIG. 5 MAXIMUM REVERSE CHARACTERISTICS



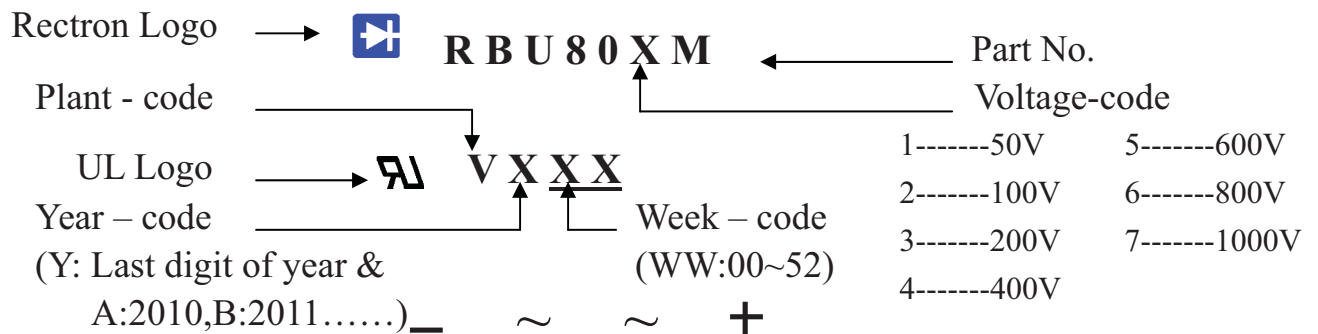
# RECTRON

## Attachment information about RBU80XM

### 1. Internal Circuit



### 2. Marking on the body

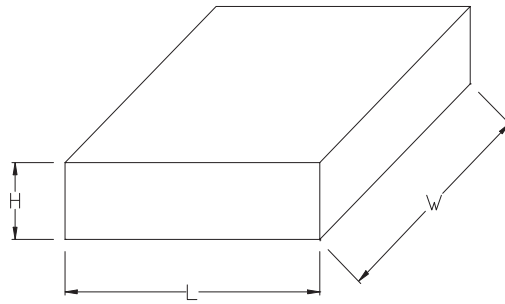


## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### TUBE PACK

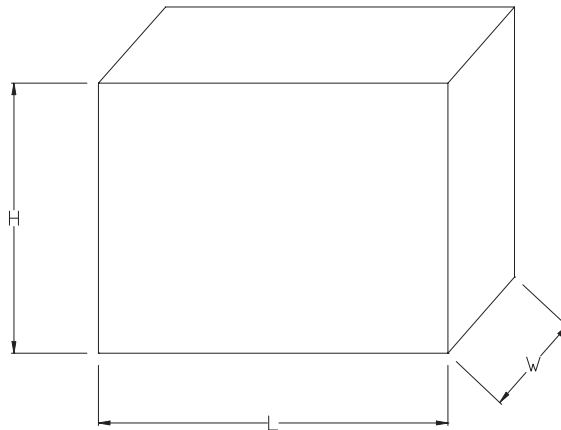
PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RBU	-C	1,000	490*135*110	510*293*131	2,000	13.62

## 1. BOX



Packing Code	L (mm)	W (mm)	H (mm)
-C	490	135	110

## 2. CARTON



Packing Code	L (mm)	W (mm)	H (mm)
-C	510	293	131