

SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 100 Volts CURRENT 8.0 Amperes

FEATURES

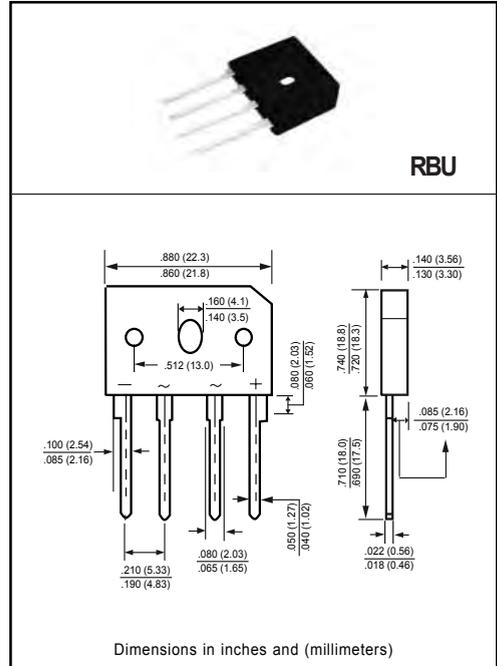
- * Low leakage
- * Low forward voltage
- * Mounting position: Any
- * Surge overload rating: 200 amperes peak
- * Ideal for printed circuit boards
- * High forward surge current capability

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 _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Output Current at Tc = 75°C	I _o	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200							Amps
Typical Thermal Resistance (Note 1)	R θ JA	26							°C/W
	R θ JC	3.4							
Operating and Storage Temperature Range	T _J , T _{STG}	-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 _F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	@TA = 25°C	5.0							uAmps
	@TA = 125°C	0.5							
									mAmps

NOTE: 1. Units mounted in free air, no heatsink on P.C.B., 0.5x0.5" (12x12mm) copper pads, 0.375" lead length.
 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTICS CURVES (RBU801M THRU RBU807M)

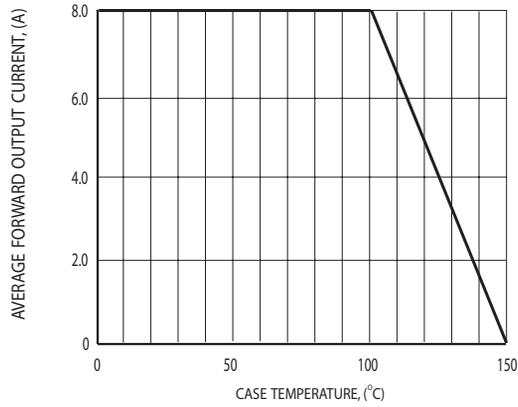


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

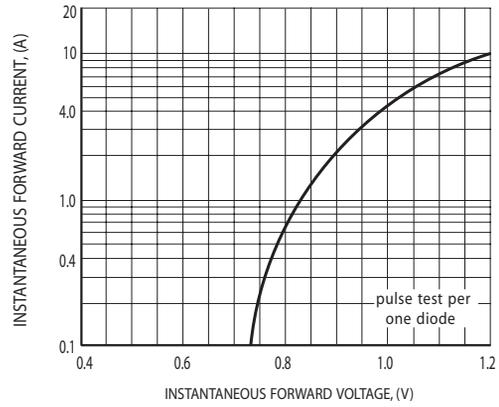


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

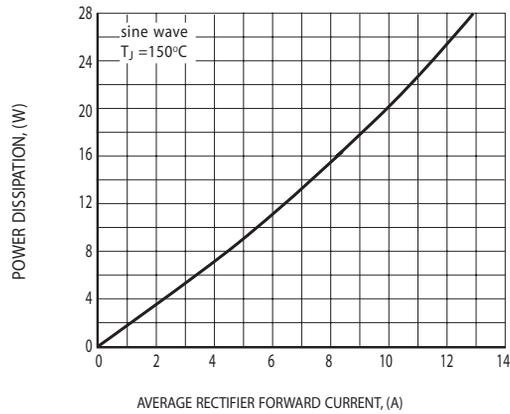


FIG.3 FORWARD DISSIPATION

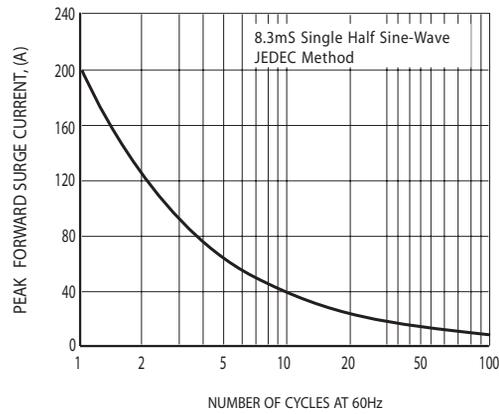


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

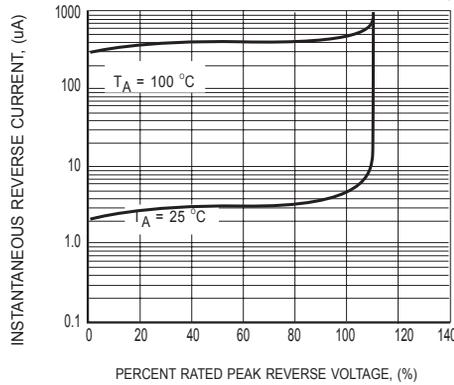
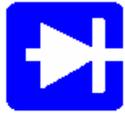


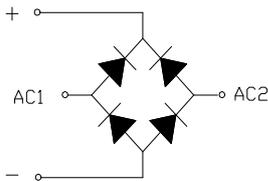
FIG.5 TYPICAL REVERSE CHARACTERISTICS



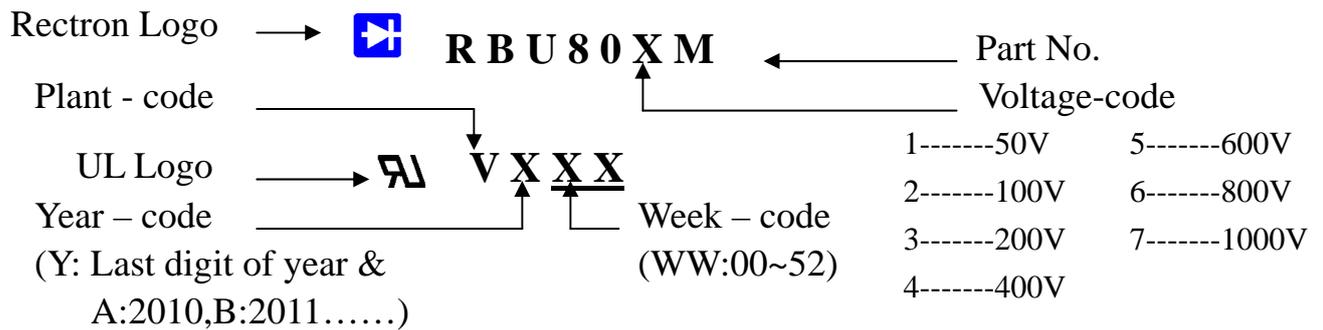
RECTRON

Attachment information about RBU80XM

1. Internal Circuit



2. Marking on the body

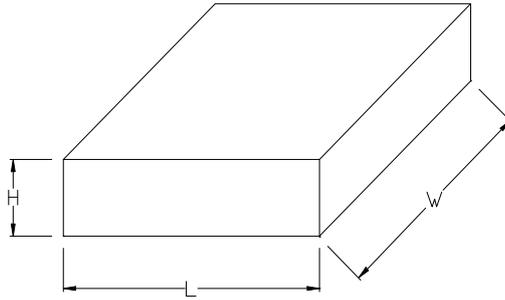


PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

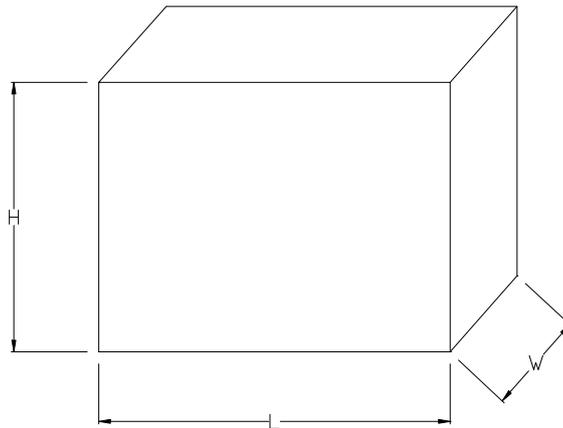
PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RBU	-C	1,000	490*135*110	510*293*131	2,000	13.62

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

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