





## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 15.0 Amperes

### **FEATURES**

- \* Low leakage
- \* Low forward voltage
- \* Silver-plated copper leads
- \* Surge overload rating: 250 amperes peak
- \* Mounting position: Any



\* Epoxy: Device has UL flammability classification 94V-O



Ratings at 25  $^{\circ}\text{C}$  ambient temperature unless otherwise specified. resistive or inductive load.



Please See Page 3 for Dimension

Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	RBU1501M	RBU1502M	RBU1503M	RBU1504M	RBU1505M	RBU1506M	RBU1507M	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 <sub>C</sub> = *100 °C (Note 4)	Io	15.0					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	250						Amps	
Typical Current Squarad Time	I <sup>2</sup> t	259.2						A <sup>2</sup> /Sec	
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150						٥C	

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

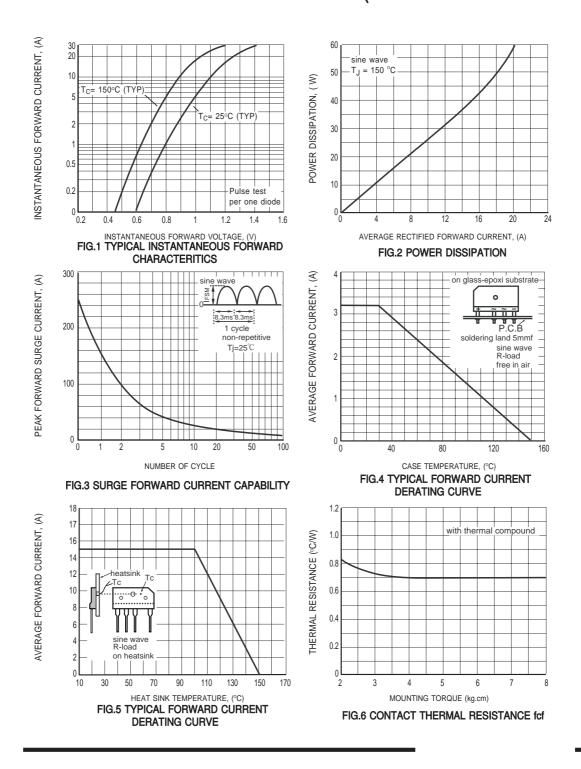
CHARACTERISTI	SYMBOL	RBU1501M RB	U1502M RI	BU1503M R	BU1504M	RBU1505M	RBU1506M	RBU1507M	UNITS
Maximum Instantaneous Forward Vo	V <sub>F</sub>	1.1					Volts		
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	ln.	5.0						
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR IR	100					uAmps	

NOTES: 1. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
2. "\*" Heat Sink Temperature.

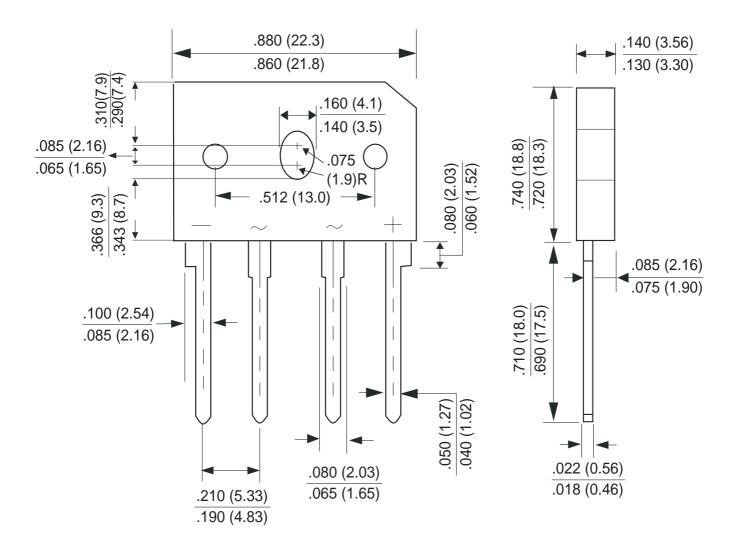
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-05 REV: B

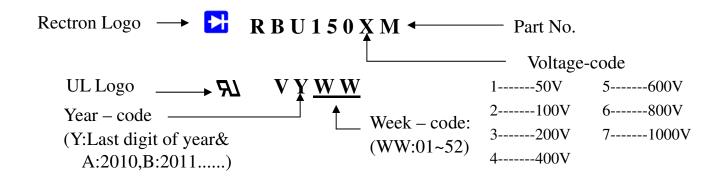
## RATING AND CHARACTERISTICS CURVES (RBU1501M THRU RBU1507M)



# Dimensions in inches and (millimeters)



## **Marking Description**





# 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	-В	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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