

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**
VOLTAGE RANGE 50 to 1000 Volts CURRENT 15.0 Amperes

FEATURES

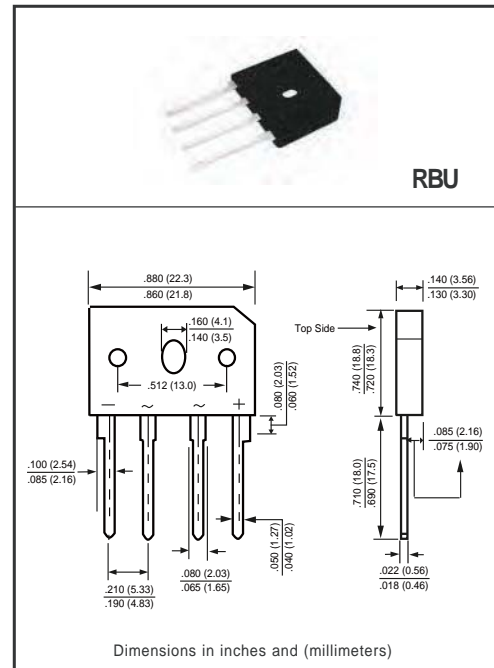
- * Low leakage
- * Low forward voltage
- * Surge overload rating : 250 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * UL list the recognized component directory, file #E94233

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	RBU1501M	RBU1502M	RBU1503M	RBU1504M	RBU1505M	RBU1506M	RBU1507M	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS 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 Current at T _C = *90 °C (Note 4)	I _O	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	250							Amps
Typical Current Squared Time	I ² _t	259.3							A ² /S
Isolation Voltage of case	V _{ISO}	3000							V _{AC}
Typical Thermal Resistance (Note 1)	R _{θJC}	1.5							°C/W
	R _{θJA}	22							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

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

CHARACTERISTICS	SYMBOL	RBU1501M	RBU1502M	RBU1503M	RBU1504M	RBU1505M	RBU1506M	RBU1507M	UNITS
Maximum Instantaneous Forward Voltage at 7.5A DC	V _F	1.0							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	0.5							uAmps
	@T _A = 150 °C	500							

- NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. "ROHScompliant"
3. Equivalent to Vishay's GBU10 Series.
4. *** Heat Sink Temperature.
5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

RATING AND CHARACTERISTICS CURVES (RBU1501M THRU RBU1507M)

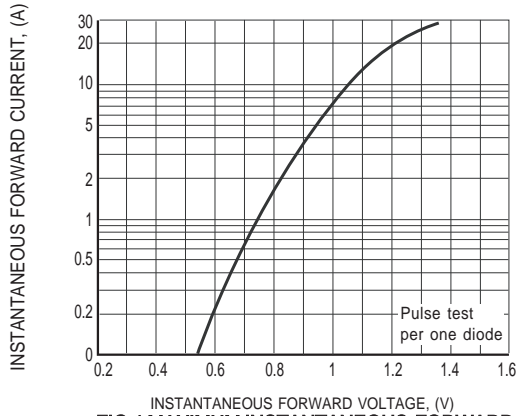


FIG.1 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

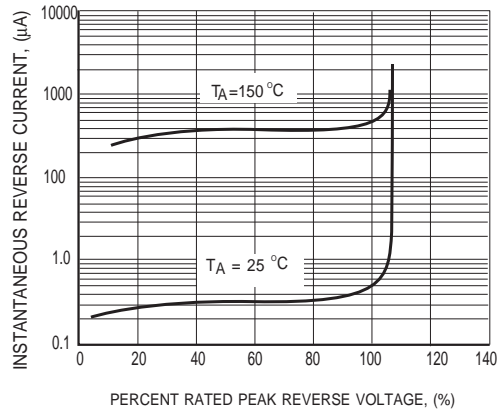


FIG.2 MAXIMUM REVERSE CHARACTERISTICS

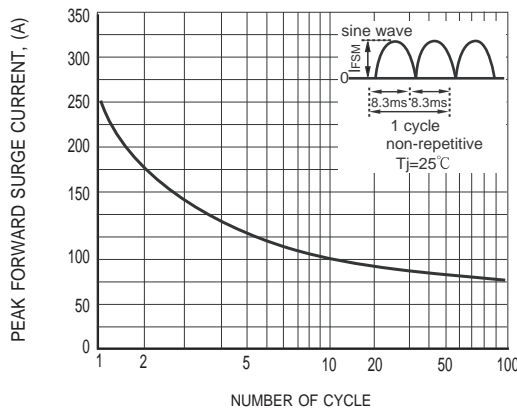


FIG.3 SURGE FORWARD CURRENT CAPABILITY

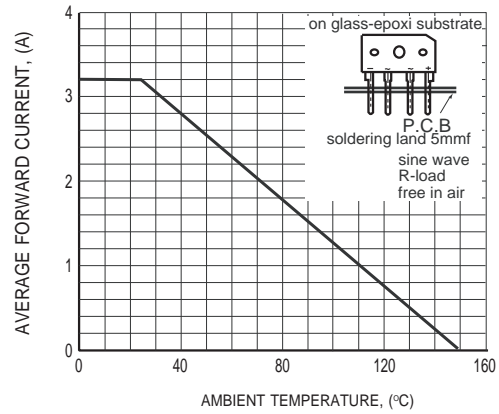


FIG.4 TYPICAL FORWARD CURRENT DERATING CURVE

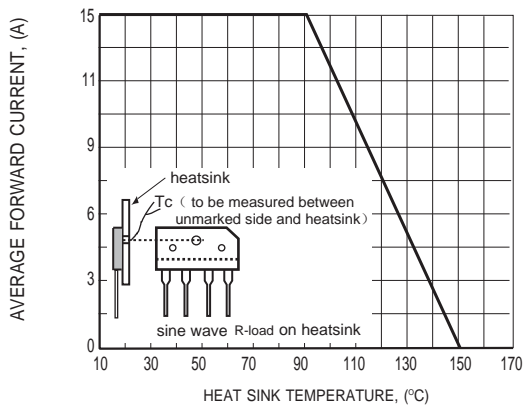


FIG.5 TYPICAL FORWARD CURRENT DERATING CURVE

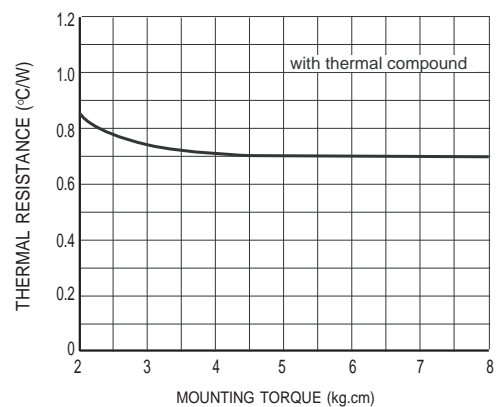
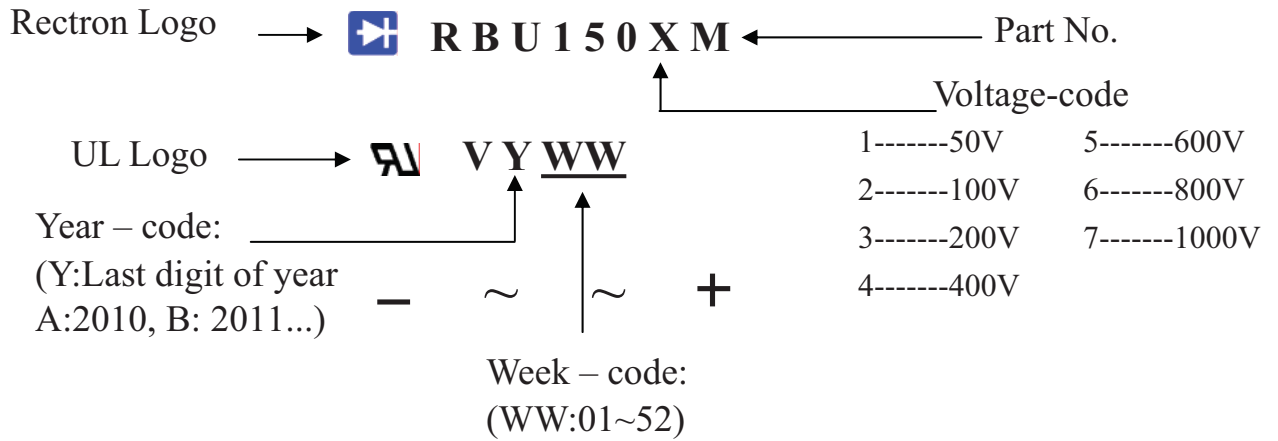


FIG.6 CONTACT THERMAL RESISTANCE for

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

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