

RBU2501M THRU RBU2507M

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 25 Amperes

FEATURES

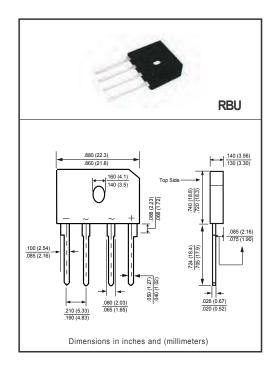
- * Low leakage
- * Low forward voltage
- * Surge overload rating: 350 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

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

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	RBU2501M	RBU2502M	RBU2503M	RBU2504M	RBU2505M	RBU2506M	RBU2507M	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 = 100°C (Note 4)	lo	25.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	350					Amps		
Typical Current Squared Time	I ² t	508				A ² /S			
Isolation Voltage of case	Viso	2500					VAC		
Typical Thermal Resistance (Note 1)	R _{θJC}	2.2							°C/W
Typical Thornal Resistance (Note 1)	R_{\thetaJA}	22							O, W
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					°C		

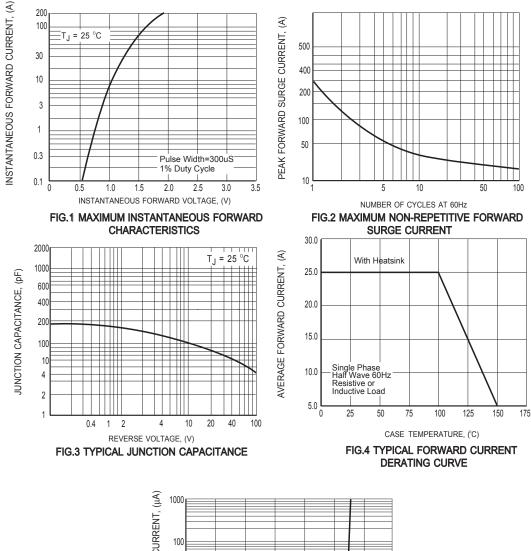
ELECTRICAL CHARACTERISTICS(@T_A=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RBU2501M	RBU2502M	RBU2503M	RBU2504M	RBU2505M	RBU2506M	RBU2507M	UNITS
Maximum Instantaneous Forward Vo	V _F	1.1						Volts		
I TO THE PROPERTY OF THE PROPE	@T _A = 25°C	- I _R				5.0				uAmps
	@T _A =150 °C					2.0				mAmps

NOTES: 1. Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.
4. Heat Sink Temperature.

2018-10/14 REV: B

RATING AND CHARACTERISTICS CURVES (RBU2501M THRU RBU2507M)



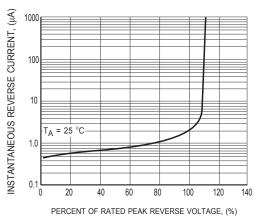
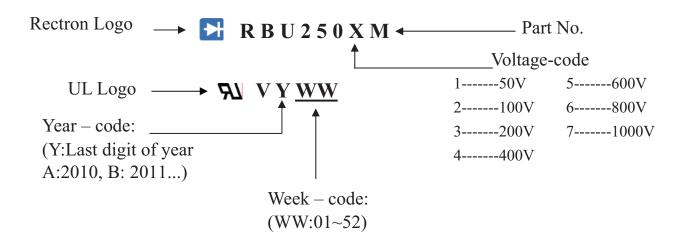


FIG.5 MAXIMUM REVERSE CHARACTERISTICS



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

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



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