

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 6.0 Amperes

FEATURES

- * Low leakage
- * Low forward voltage
- * Silver-plated copper leads
- * Surge overload rating: 150 amperes peak
- * Mounting position: Any

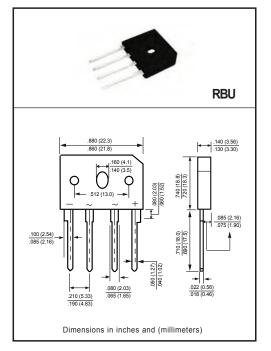
MECHANICAL DATA

* 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.



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

For capacitive load, derate current by 20%.

RATINGS	SYMBOL	RBU601M	RBU602M	RBU603M	RBU604M	RBU605M	RBU606M	RBU607M	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 3)	IO	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150						Amps	
Typical Current Squared Time	l ² t	93.38					A ² S		
Typical Thermal Resistance (Note 1)	R _{θJC}	3.5							°C/W
	$R_{\theta JA}$	26							
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					۰C		

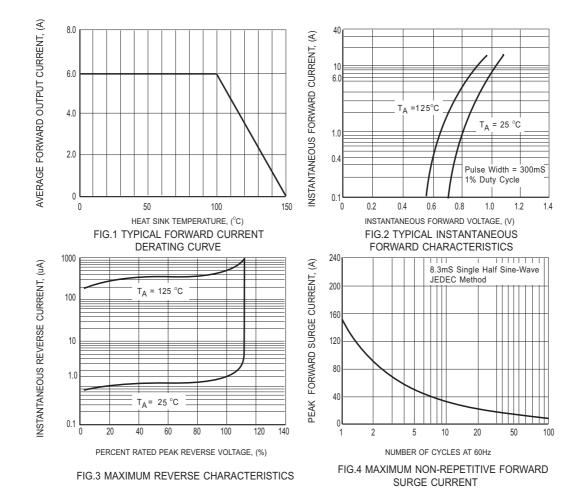
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	TYP	MAX	UNITS	
Instantaneous Forward Voltage at 6.0A DC	@T _A = 25°C	V _F	.95	1.0	Volts	
	@T _A = 125°C		.845	.88	Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T _A = 25°C	- I _R	1.0			
	@T _A = 125°C		500			

NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted. 2. " ROHS compliant"

ROHS compliant
"*" Heat Sink Temperature.

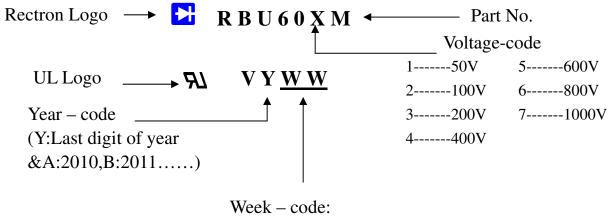
2019-12 REV: B



RATING AND CHARACTERISTICS CURVES (RBU601M THRU RBU607M)



Marking Description



(WW:01~52)

CRECTRON

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



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

