

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**
VOLTAGE RANGE 50 to 1000 Volts CURRENT 6.0 Amperes

FEATURES

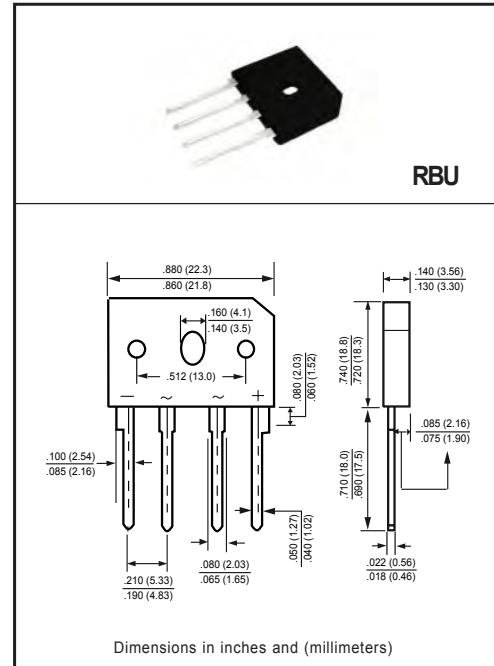
- * Low leakage
- * Low forward voltage
- * Silver-plated copper leads
- * Surge overload rating: 150 amperes peak
- * Mounting position: Any

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.
For capacitive load, derate current by 20%.



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

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)	I _O	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150							Amps
Typical Current Squared Time	I ² t	93.38							A ² S
Typical Thermal Resistance (Note 1)	R _{θJC}	3.5							°C/W
	R _{θJA}	26							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

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

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

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

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REV: B

RATING AND CHARACTERISTICS CURVES (RBU601M THRU RBU607M)

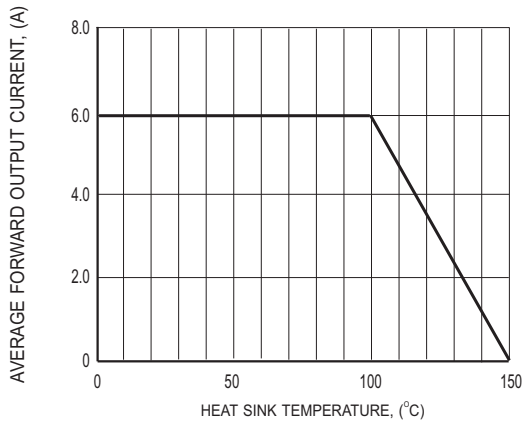


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

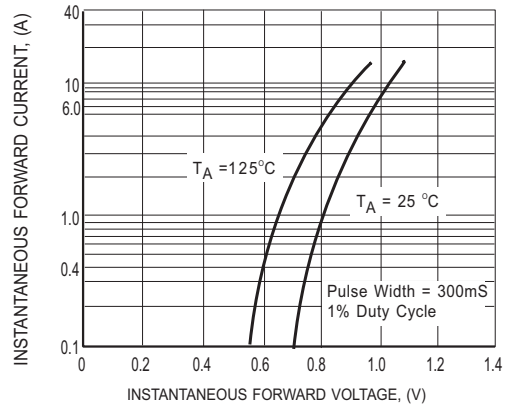


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

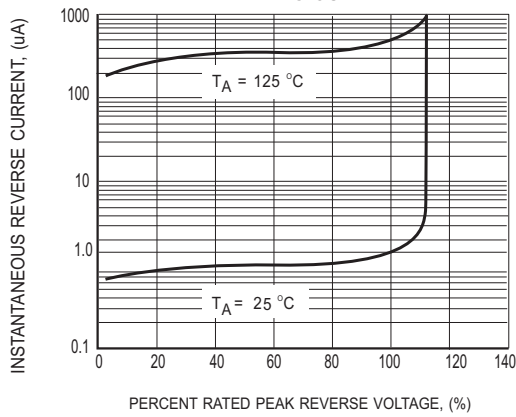


FIG.3 MAXIMUM REVERSE CHARACTERISTICS

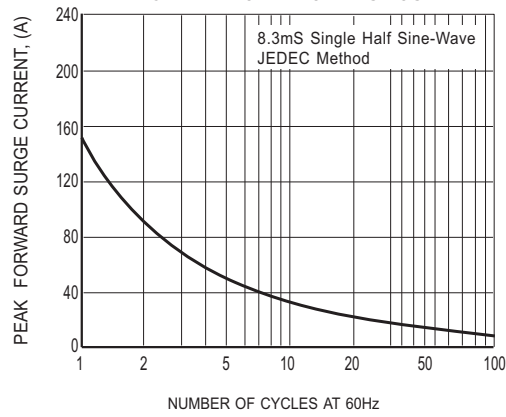
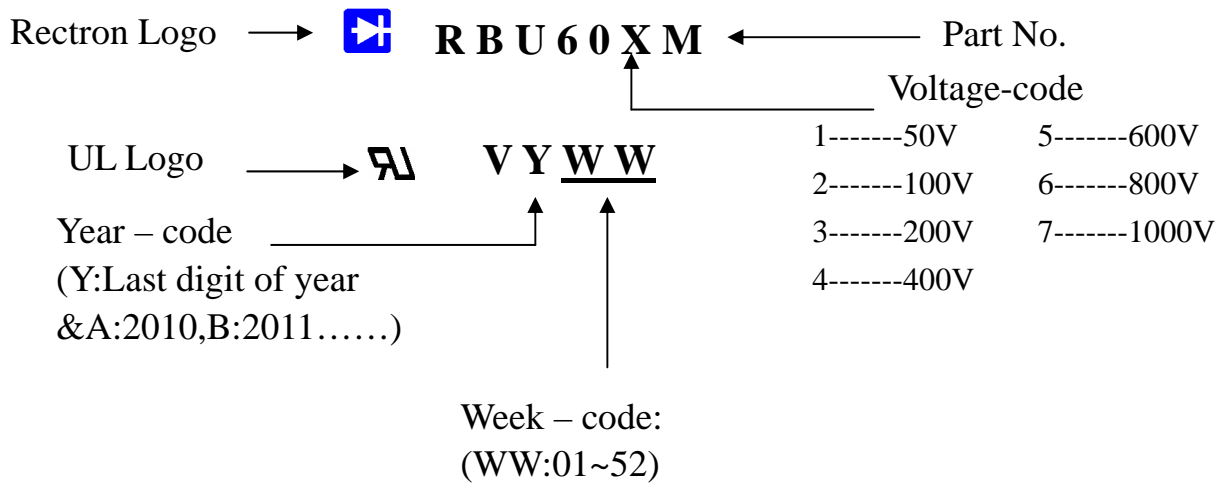


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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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