

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**
VOLTAGE RANGE 600 Volts CURRENT 25 Amperes

FEATURES

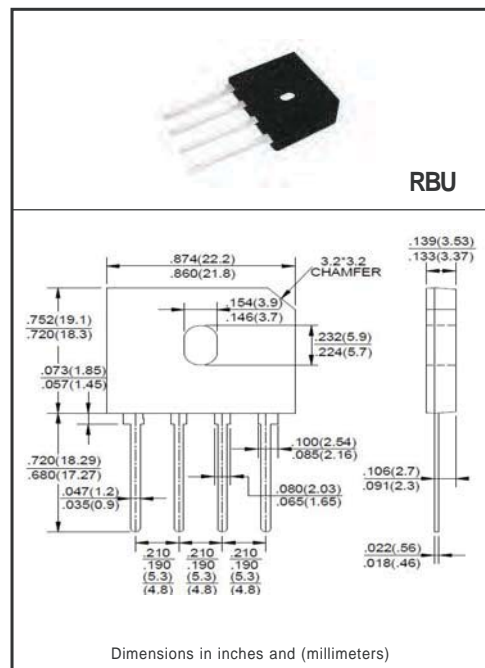
- * Low leakage
- * Low forward voltage
- * Surge overload rating : 350 amperes peak
- * Mounting position: Any
- * Ideal for printed circuit boards
- * High forward surge current capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-0
- * 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	RBU2505M-C-LV	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	Volts
Maximum RMS Voltage	V _{RMS}	420	Volts
Maximum DC Blocking Voltage	V _{DC}	600	Volts
Maximum Average Forward Rectified Current at T _C = 100°C	I _O	25	Amps
Insulation voltage	V _{iso}	2500	Volts
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
Typical Thermal Resistance (Note 1)	R _{θJC}	5	°C/W
	R _{θJA}	22	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	RBU2505M-C-LV	UNITS
Maximum Instantaneous Forward Voltage at 12.5A DC	V _F	.92	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	@ T _A = 25°C	5.0
		@ T _A = 125°C	500

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

2018-11
REV:A

RATING AND CHARACTERISTICS CURVES (RBU2501M-C-LV)

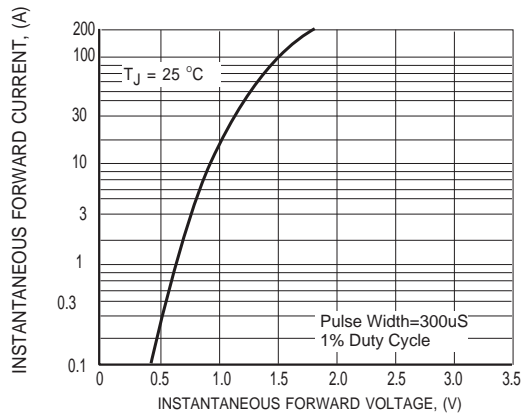


FIG.1 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

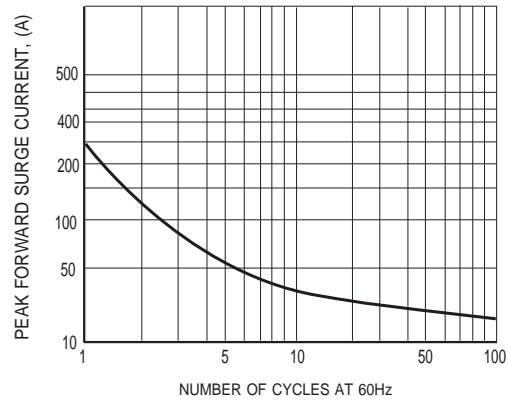


FIG.2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

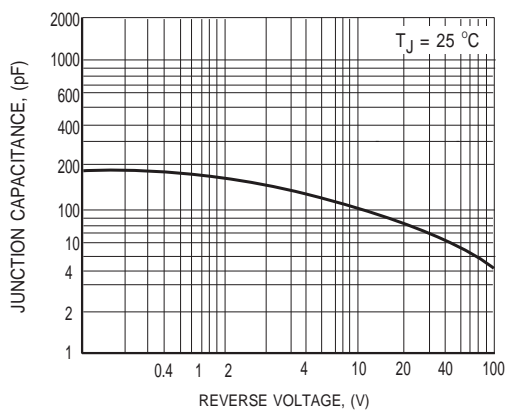


FIG.3 TYPICAL JUNCTION CAPACITANCE

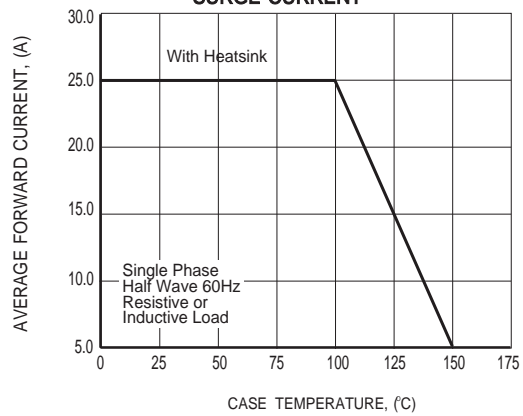


FIG.4 TYPICAL FORWARD CURRENT DERATING CURVE

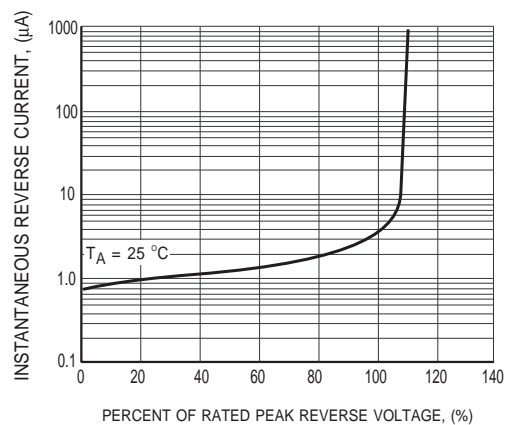
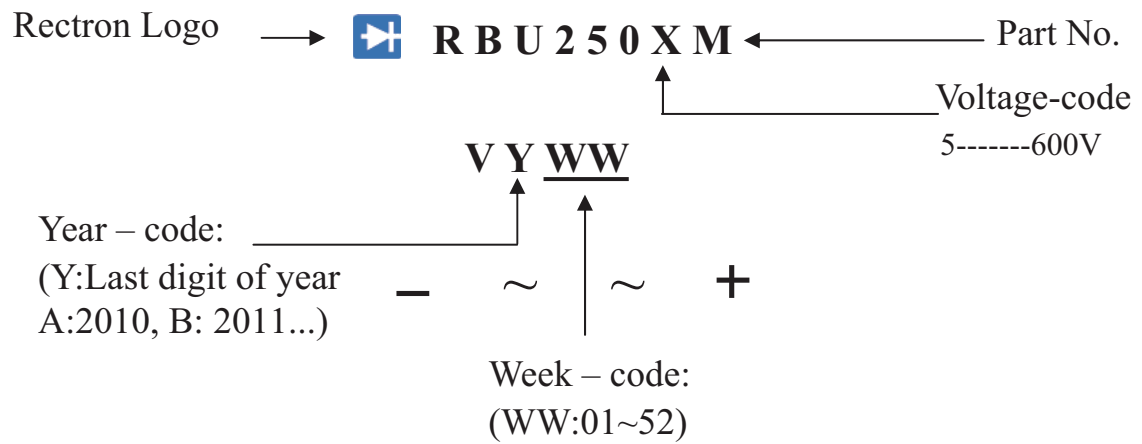


FIG.5 MAXIMUM REVERSE CHARACTERISTICS

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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