



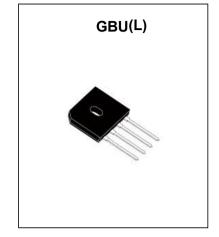
GBU JL THRU GBU ML

FEATURES

* Ideal for printed circuit board

* Surge overload rating: 180 Amperes peak

* Moisture Sensitivity Level 1



MECHANICAL DATA

* Case: Molded plastic

* UL listed the recognized component directory, file #E195711

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

* Mounting position: Any

* Teminals:Solder plated, solderable per MIL-STD-750,Method 2026.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive of inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS SYMBOL GBU8JL GBU8KL GBU8ML UNIT GBU8JL GBU8KL GBU8ML Mark Code UNIT **VRRM** 600 800 1000 Maximum Recurrent Peak Reverse Voltage Volts **VRMS** 420 560 700 Maximum RMS Voltage Volts VDC 600 800 1000 Maximum DC Blocking Voltage Volts 8.0 Maximum Average Forward T_C=60°C Amps $I_{(AV)}$ Rectified Output Current at T_A=25°C (see Fig.1) 3.0 Peak Forward Surge Current 8.3 ms single half sine-wave **IFSM** 180 Amps superimposed on rated load (JEDEC method) I²t 134.4 Rating for fusing (t<8.3ms) A²sec Typical Thermal Resistance (Note 2) $R\Theta_{JA}$ 20 °C/W RΘ_{JC} 4 94 Typical Junction Capacitance (Note 1) C_J PF T_J -55 to +150 Operating Temperature Range °C Storage Temperature Range T_{STG} -55 to +150 °C Forward Voltage Range at 8.0A DC VF 1.1 Volts Maximum Average Reverse Current at @TA=25°C 5.0 IR **µAmps** 500 Rated DC Blocking Voltage @TA=125°C

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

- $2. \ \, \text{Device mounted in free air,no heatsink,P.C.B at 0.375" (9.5 MM) lead length with 0.5 x 0.5" (12 x 12 MM) copper pads.}$
- 3. Device mounted on a 2.6 x 1.4' x 0.06' tjick (6.5 x 3.5 x 0.15 cm) AL plate.



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RATING AND CHARACTERISTICS CURVES

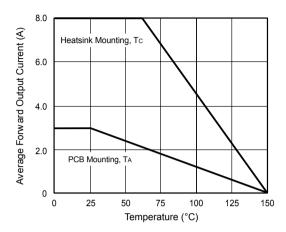


Figure 1. Derating Curve Output Rectified Current

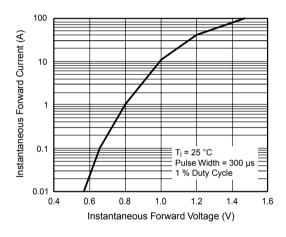


Figure 3. Typical Forward Characteristics Per Diode

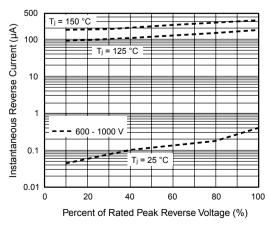


Figure 4. Typical Reverse Leakage Characteristics Per Diode

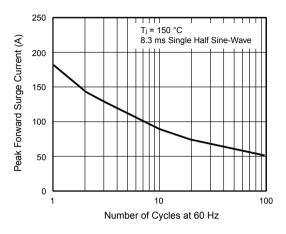


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

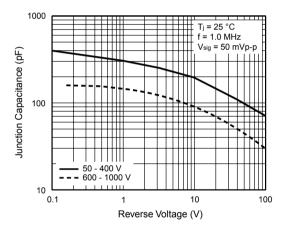


Figure 5. Typical Junction Capacitance Per Diode

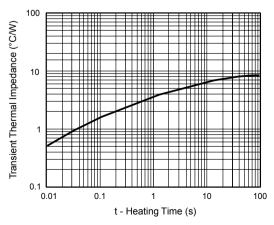
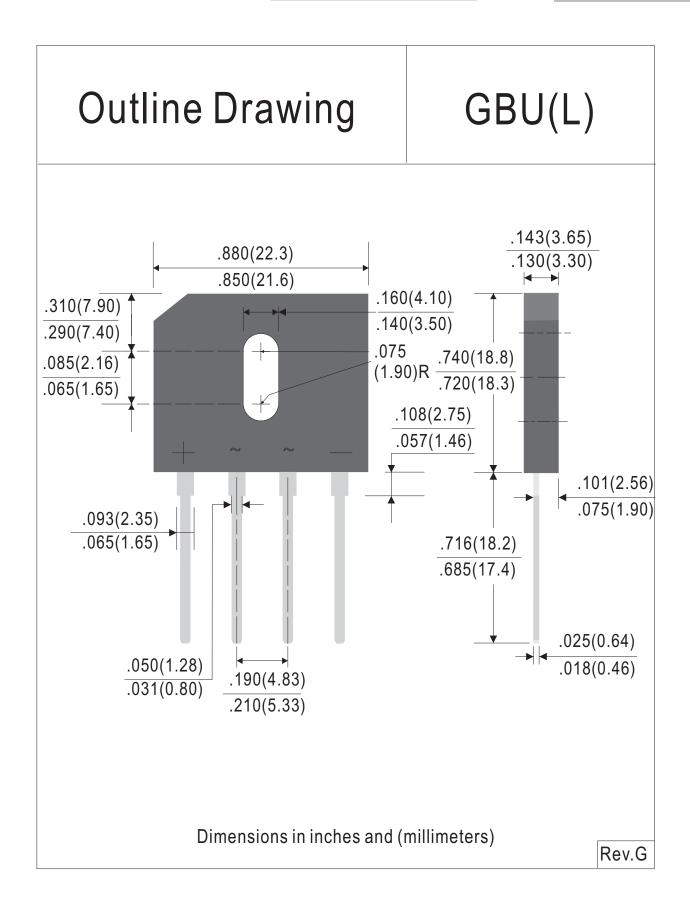


Figure 6. Typical Transient Thermal Impedance Per Diode





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Ordering Information:

Device PN	Packing
Part Number - ⁽¹⁾ G ⁽²⁾ -WS	Tube Packing:20pcs/Tube; 1000pcs/Box

Note: 1. Packing code: Empty is Tube Packing

2. RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

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