

FEATURES

- * Ideal for printed circuit board
- * Surge overload rating: 150 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
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.

GBU(L)



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	GBU6JŠ	GBU6KŠ	GBU6MŠ	UNIT
Mark Code		SYMBOL	GBU6JŠ	GBU6KŠ	GBU6MŠ	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	600	800	1000	Volts
Maximum RMS Voltage		VRMS	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	600	800	1000	Volts
Maximum Average Forward T _C =90°C		I _(AV)	6.0			Amps
Rectified Output Current at T _A =25°C (see Fig.1)			3.0			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	150			Amps
Rating for fusing (t<8.3ms)		I ² t	93.3			A ² sec
Typical Thermal Resistance (Note 2) (Note 3)		RO _{JA}	8.6			°C/W
		RO _{JC}	3.1			
Typical Junction Capacitance (Note 1)		C _J	94			PF
Operating Temperature Range		T _J	-55 to +150			°C
Storage Temperature Range		T _{STG}	-55 to +150			°C
Forward Voltage Range at 6.0A DC		VF	1.1			Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@TA=25°C	IR	5.0			μAmps
	@TA=125°C		500			

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

2. Device mounted in free air, no heatsink, P.C.B at 0.375"(9.5MM) lead length with 0.5 x 0.5"(12 x 12MM) copper pads.

3. Device mounted on a 2.6 x 1.4' x 0.06' t/jick (6.5 x 3.5 x 0.15 cm) AL plate.



RATING AND CHARACTERISTICS CURVES

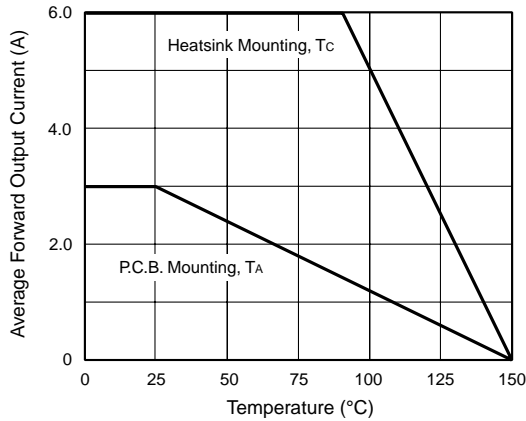


Figure 1. Derating Curve Output Rectified Current

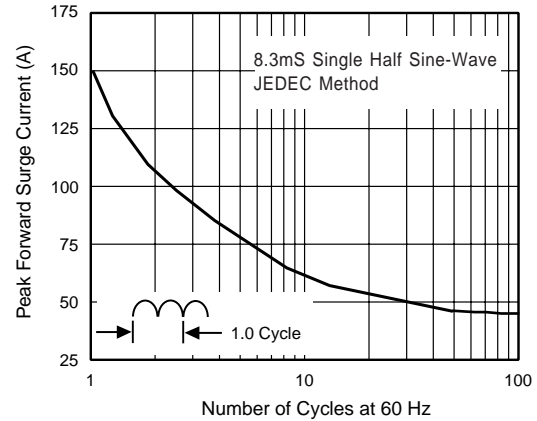


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

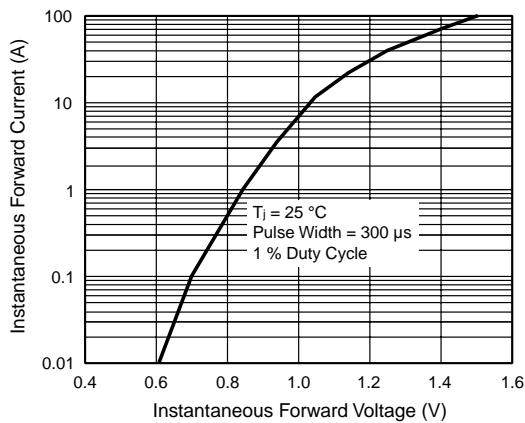


Figure 3. Typical Forward Characteristics Per Diode

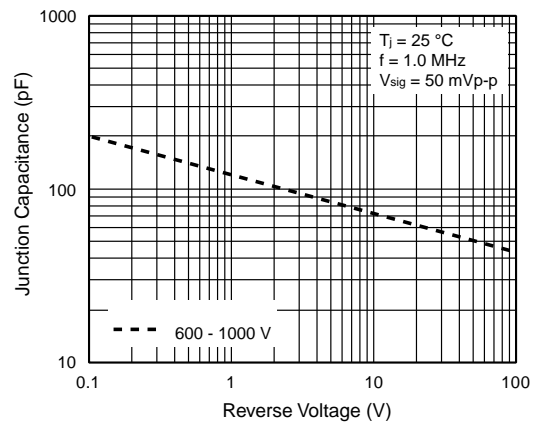


Figure 5. Typical Junction Capacitance Per Diode

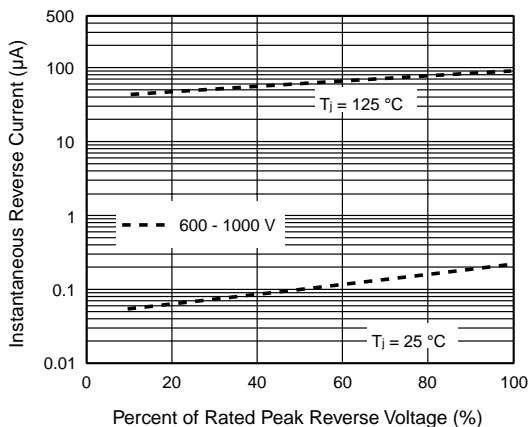


Figure 4. Typical Reverse Leakage Characteristics Per Diode

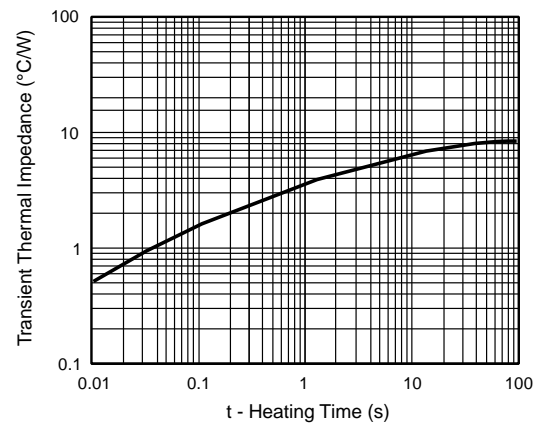
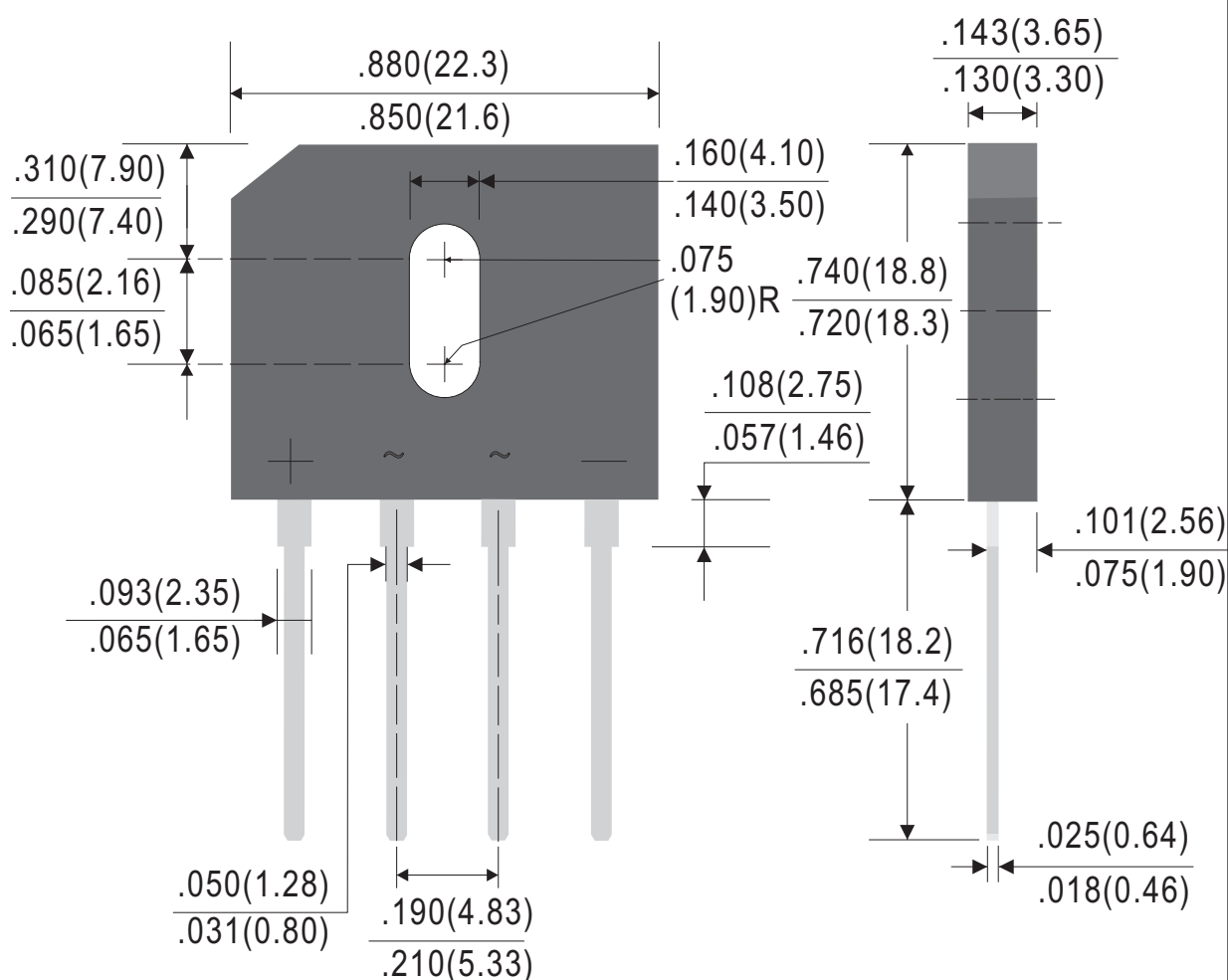


Figure 6. Typical Transient Thermal Impedance



Outline Drawing

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Dimensions in inches and (millimeters)

Rev.G

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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