

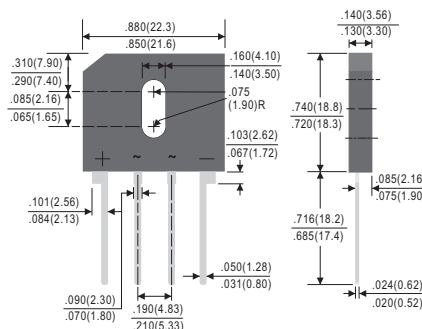
FEATURES

- * Ideal for printed circuit board
- * Surge overload rating:200 Amperes peak
- * Mounting position: Any
- * Weight: 4 grams
- * Pb free plating 99% Sn above

MECHANICAL DATA

- * UL listed the recognized component directory, file #E195711
- * Epoxy: Device has UL flammability classification 94V-0

GBU(L)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS		SYMBOL	GBU8AL	GBU8BL	GBU8DL	GBU8GL	GBU8JL	GBU8KL	GBU8ML	UNIT
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 T _c =60°C Rectified Output Current at T _A =25°C (Fig.1)		I _(AV)	8.0 3.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	200							Amps
Rating for fusing (t<8.3ms)		I ² t	166							A ² sec
Typical Thermal Resistance (Note 2) (Note 3)		R _{θJA}	20							°C/W
		R _{θJC}	4.0							
Typical Junction Capacitance (Note 1)		C _J	211				94			pF
Operating Temperature Range		T _J	-55 to +150							°C
Storage Temperature Range		T _S T _G	-55 to +150							°C
Forward Voltage Range at 8.0A DC		V _F	1.1							Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@T _A =25°C	I _R	5.0							μAmps
	@T _A =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' tjick (6.5 x 3.5 x 0.15 cm) AL plate.



WILLAS

8 AMPS GLASS PASSIVATED BRIDGE RECTIFIER

GBU PACKAGE

GBU8AL
THRU
GBU8ML

Pb Free Product

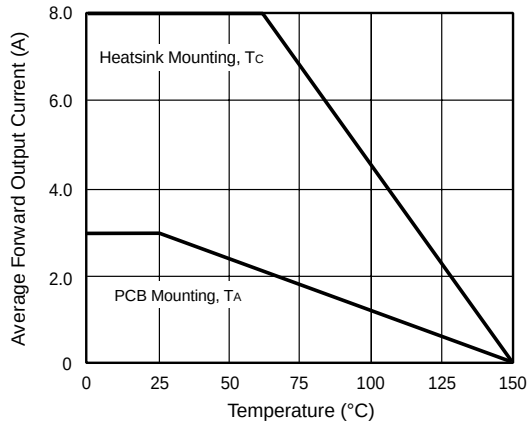


Figure 1. Derating Curve Output Rectified Current

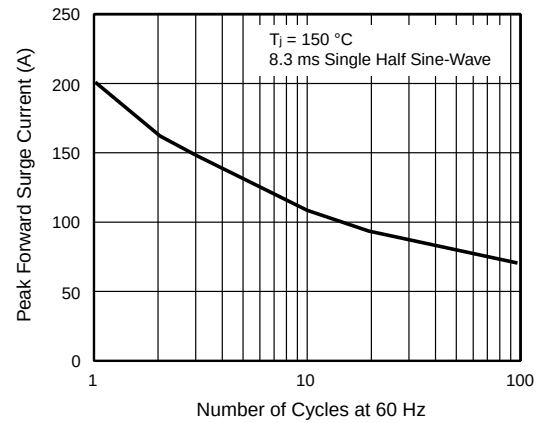


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

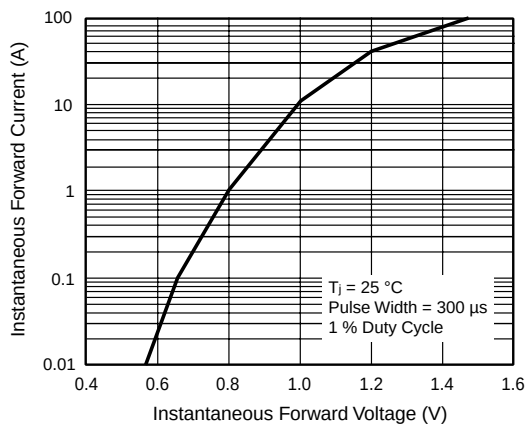


Figure 3. Typical Forward Characteristics Per Diode

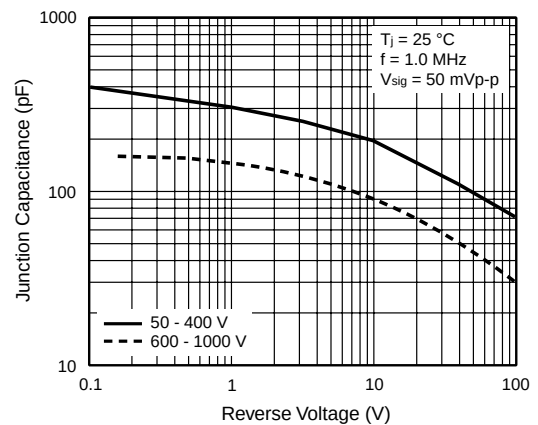


Figure 5. Typical Junction Capacitance Per Diode

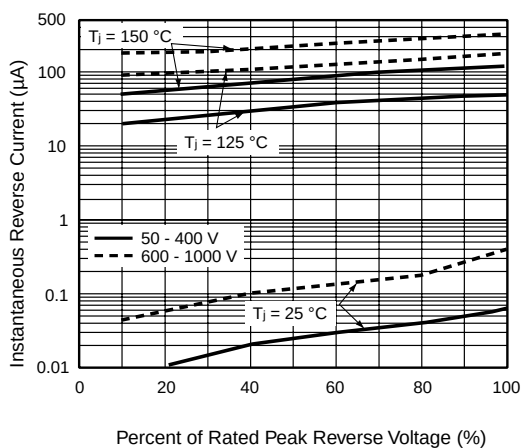


Figure 4. Typical Reverse Leakage Characteristics Per Diode

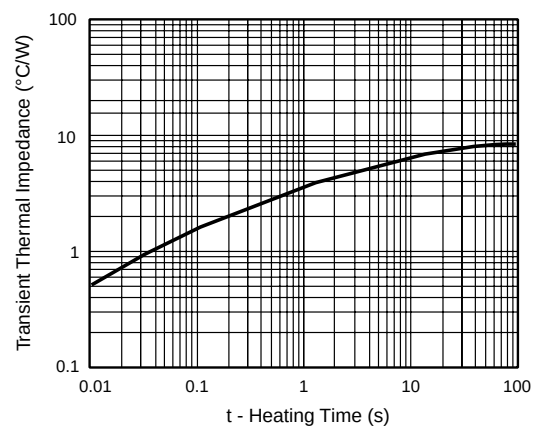


Figure 6. Typical Transient Thermal Impedance Per Diode