

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Glass passivated chip junction
- * High case dielectric strength
- * High surge current capability
- * Ideal for printed circuit boards
- * High temperature soldering guaranteed :260°C/10 seconds, 0.375(9.5mm) lead length ,5lbs. (2.3kg) tension

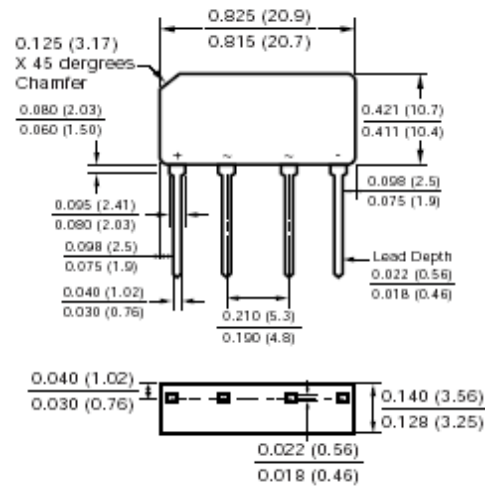
MECHANICAL DATA

- * Case: Molded plastic body over passivated junctions
- * Terminal: Plate leads solderable per MIL-STD-750 method 2026
- * Mounting Position: Any
- * Weight: 0.071 ounce, 2.0 gram

Plating pb free

The marking is indicated by part no. + "M".

ex: GBLA005M ~GBLA10M



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%.

	SYMBOLS	GBLA 005	GBLA 01	GBLA 02	GBLA 04	GBLA 06	GBLA 08	GBLA 10	UNITS
Maximum Repetitive 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 Output Current, at	$I_{(AV)}$	$T_C=50^\circ C$	4.0 (NOTE1)						Amps
		$T_A=40^\circ C$	3.0 (NOTE2)						
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	120						Amps	
Rating for Fusing ($t < 8.3ms$)	I^2t	60						A^2s	
Maximum Instantaneous Forward Voltage Drop per Leg at 4.0A	V_F	1.0						Volts	
Maximum DC Reverse Current at rated DC blocking voltage per element	I_R	$T_A=25^\circ C$	5.0						$\mu Amps$
		$T_A=125^\circ C$	500						$\mu Amps$
Typical Junction Capacitance (Note 1)	C_J	95				40			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	47						$^\circ C/W$	
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	10						$^\circ C/W$	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						$^\circ C$	

NOTES:

- Unit case mounted on 3.0x3.0x0.11" thick (7.5x7.5x0.3cm) AL.Plate
- Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5x0.5" (12x12mm) copper pads

GBLA005 Thru GBLA10

Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 -- Derating Curves Output Rectified Current

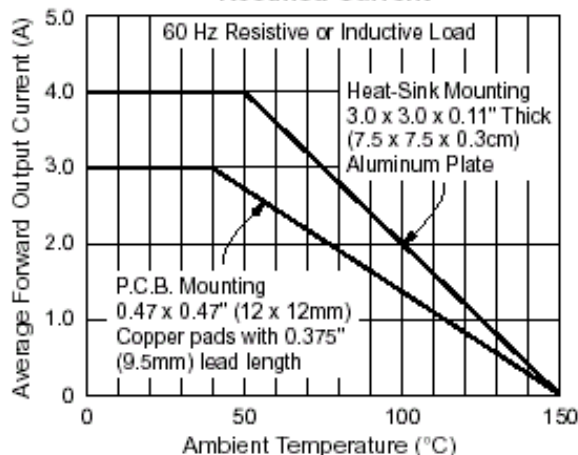


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

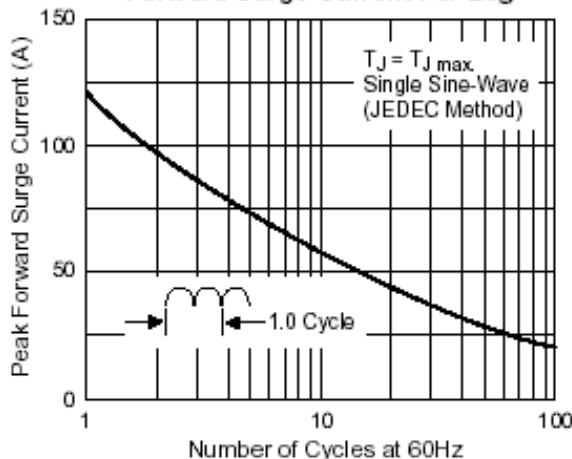


Fig. 3 -- Typical Forward Voltage Characteristics Per Leg

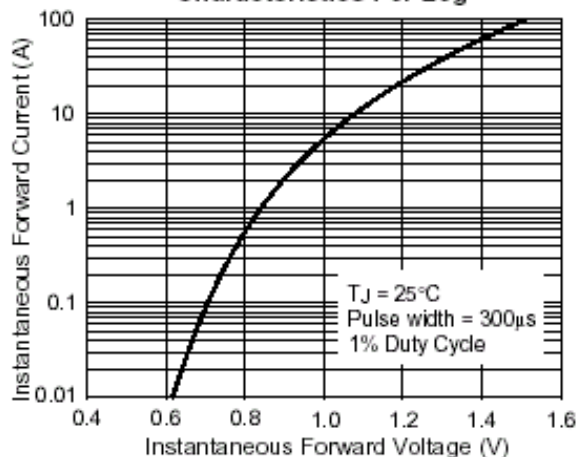


Fig. 4 -- Typical Reverse Leakage Characteristics Per Leg

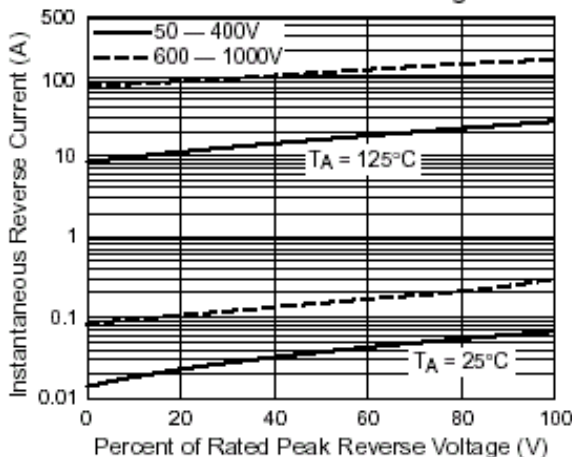


Fig. 5 -- Typical Junction Capacitance Per Leg

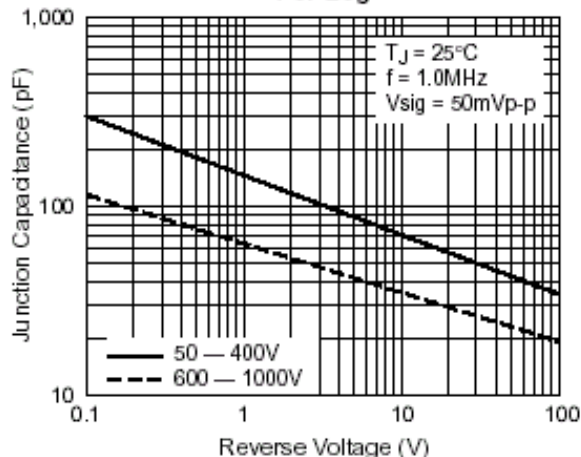


Fig. 6 -- Typical Transient Thermal Impedance Per Leg

