SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

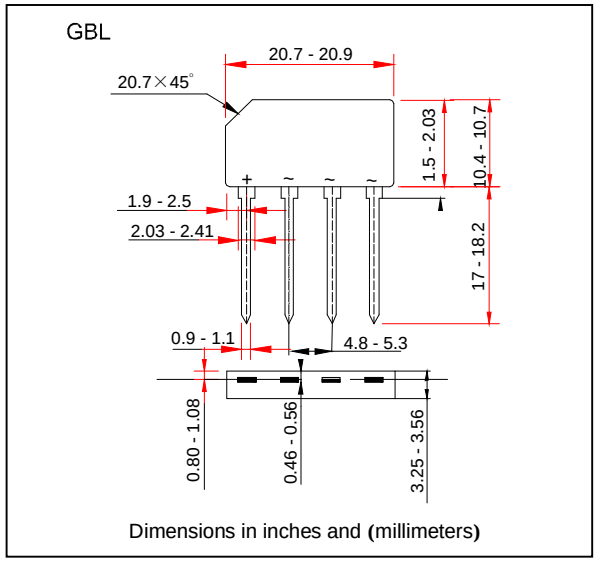
GBLA005 THRU GBLA10

VOLTAGE RANGE **50 to 1000 Volts**

CURRENT **4.0 Amperes**

FEATURES

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



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: molded plastic body
- Terminal: Plated leads solderable per MIL-STD-750 Method 2026
- Mounting position: Any
- Weight: 0.071 ounce,2.0 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25℃ 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	UNIT
Maximum Reverse Peak Repetitive 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=50℃) Rectified Output Current, At (T_A=40℃)	$I_{(AV)}$	4.0(Note 1) 3.0(Note 2)							Amps
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 Bridge element 4.0A	V_F	1.0							Volts
Maximum Reverse Current at rated DC blocking voltage per element (T_A=25℃)	I_R	5.0							μA
Maximum Reverse Current at rated DC blocking voltage per element (T_A=125℃)	I_R	500							μA
Typical Junction Capacitance per leg (Note 3)	C_J	95.0				40.0			pF
Typical Thermal Resistance (Note 1)	R_{JA}	22							℃/W
Typical Thermal Resistance (Note 2)	R_{JL}	10							℃/W
Operating and Storage Temperature Range	T_J ,T_{STG}	(-55 to +150)							℃

Notes: 1. Unit mounted on 3.0×3.0×0.11” thick (7.5×7.5×0.3cm) AL. plate
2. Unit mounted on P.C.B. at 0.375” (9.5mm) lead lengh and 0.5×0.5”(12×12mm) copper pads
3. Measured at 1.0MHz and applied reverse voltage of 4.0 V

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CURRENT	**4.0 Ampere**

RATINGS AND CHARACTERISTIC CURVES GBLA005 THRU GBLA10

FIG. 1- DERATING CURVE
OUTPUT RECTIFIED CURRENT

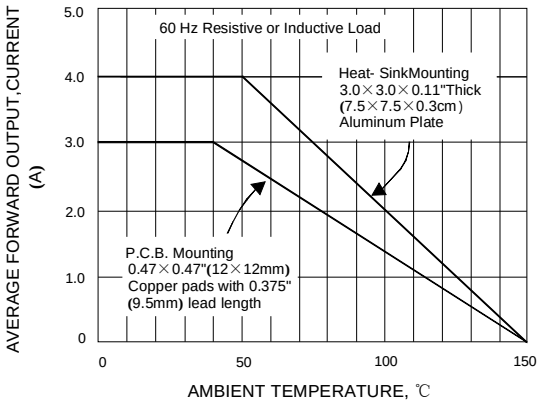

FIG. 2- MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER LEG

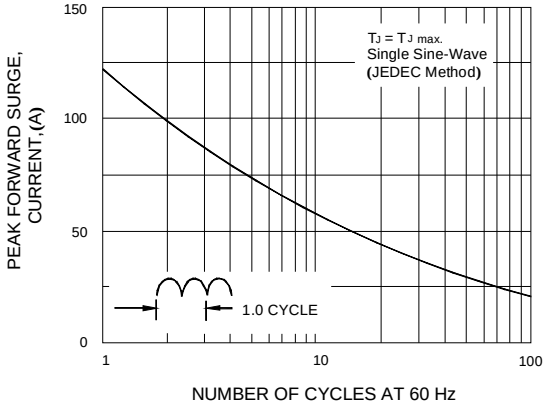

FIG. 3- TYPICAL FORWORD VOLTAGE
CHARACTERISTICS PER LGE

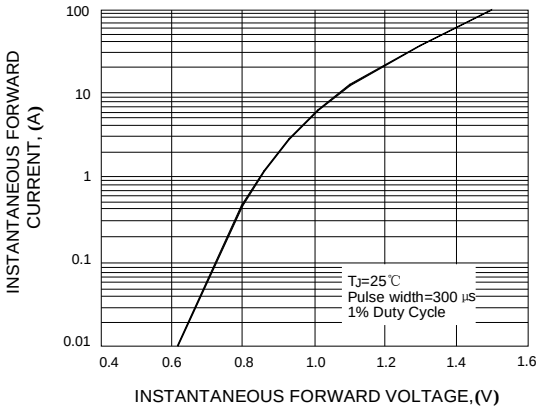

FIG. 4- TYPICAL REVERSE LEAKAGE
CHARACTERISTICS PER LEG

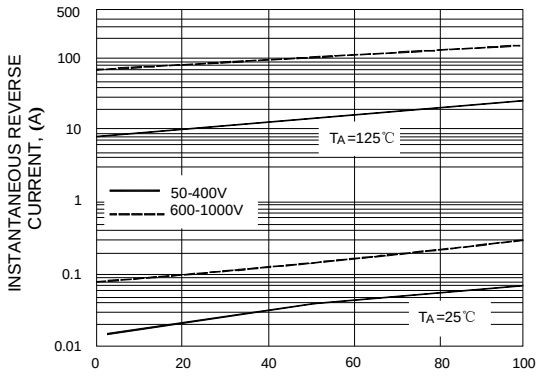

FIG. 5- TYPICAL JUNCTION CAPACITANCE
PER LEG

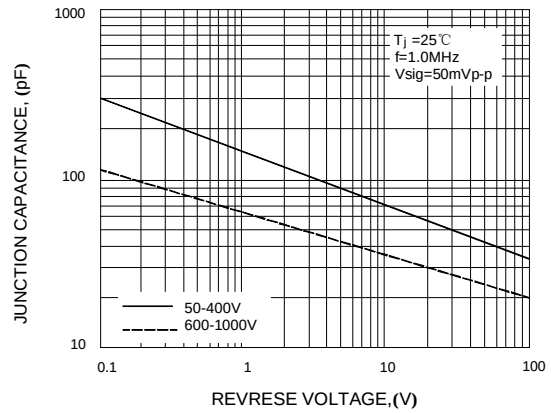

FIG. 6- TYPICAL TRANSIENT THERMAL
IMPEDANCE PER LEG