## **GBLA005 THRU GBLA10**

SINGLE PHASE GLASS

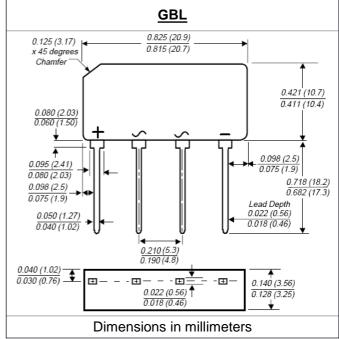
Voltage: 50 to 1000V

## PASSIVATED BRIDGE RECTIFIER

Current:4.0A



Features	
Glass passivated chip junction High case dielectric strength High surge current capability Ideal for printed circuit board	
Mechanical Data	
Terminal: Plated leads solderable per MIL-STD 202E, Method 208C Case: UL-94 Class V-0 recognized Flame Retardant Epoxy Polarity: Polarity symbol marked on body	



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, f

for	capacitive	load,	derate	current b	oy 20%)	l
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	Symbol	GBLA 005	GBLA 01	GBLA 02	GBLA 04	GBLA 06	GBLA 08	GBLA 10	units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward $Tc = 50^{\circ}C$ (Note1)rectified output current $Ta = 40^{\circ}C$ (Note2)					4.0 3.0		1		A
Peak forward surge current single sine-wav superimposed on rated load (JEDEC Method)	e Ifsm	120					A		
Maximum instantaneous forward voltage drop per leg a 4.0A	t Vf				1.0				V
Rating for fusing (t < 8.3ms)	l²t				60				A²Se
Maximum DC reverse current at rated DC blocking voltage per legTa = $25^{\circ}$ C Ta = $125^{\circ}$ C		5.0 500						μA	
Maximum thermal resistance per leg	Rth(ja) Rth(jc)				47.0 10.0				°C/V
Operating junction and storage temperature range		-55 to +150							°C

Note:

1. Unit mounted on P.C.B. with 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3 cm) Aluminum plate

2. Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads

3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

## RATINGS AND CHARACTERISTIC CURVES GBLA005 THRU GBLA10

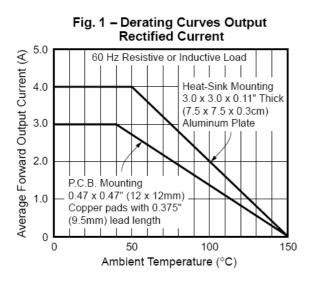
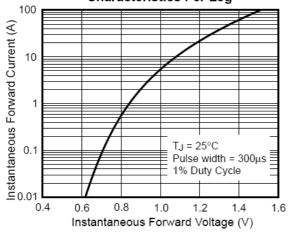


Fig. 3 – Typical Forward Voltage Characteristics Per Leg



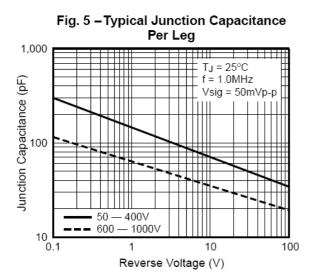


Fig. 2 -- Maximum Non-Repetitive Peak Forward Surge Current Per Leg

Fig. 4 – Typical Reverse Leakage Characteristics Per Leg

