

Single Phase 4.0AMPS. Glass Passivated Bridge Rectifiers



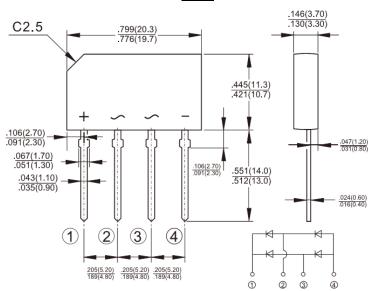






#### **Features**

- ♦ Glass passivated junction
- ♦ Ideal for printed circuit board
- High case dielectric strength
- Plastic material ha Underwriters Laboratory Flammability Classification 94V-0
- → Typical IR less than 0.1uA
- ♦ High surge current capability
- → High temperature soldering guaranteed: 260°C/ 10 seconds at 5lbs., (2.3kg) tension
- → Green compound with suffix "G" on packing code & prefix "G" on datecode



#### **Dimensions in inches and (millimeters)**

#### **Marking Diagram**



PN = Specific Device Code G = Green Compound

Y = Year WW = Work Week

## **Mechanical Data**

♦ Case: Molded plastic body

 Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208

Weight: 2.0 gramsMounting position: Any

# **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

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Type Number	Symbol	GBLA 005	GBLA 01	GBLA 02	GBLA 04	GBLA 06	GBLA 08	GBLA 10	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current  @T <sub>c</sub> =50°C  @T <sub>A</sub> =40°C	I <sub>F(AV)</sub>				4 3				Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	120							Α
Rating for fusing (t<8.3ms)	I <sup>2</sup> T	59.76						A <sup>2</sup> S	
Maximum Instantaneous Forward Voltage (Note 1) @ 4 A	V <sub>F</sub>	1.0						٧	
	I <sub>R</sub>	5 500						uA	
Typical Thermal Resistance	R <sub>θjA</sub> R <sub>θjL</sub>	47 10						°C/W	
Operating Temperature Range	$T_J$	- 55 to + 150						οС	
Storage Temperature Range	T <sub>STG</sub>			- 5	55 to + 1	50			οС

Notes 1: Pulse Test with PW=300 usec, 1% Duty Cycle



## RATINGS AND CHARACTERISTIC CURVES (GBLA005 THRU GBLA10)

