

## **GBJ2005 THRU GB210**

#### **GLASS PASSIVATED BRIDGE RECTIFIER**

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

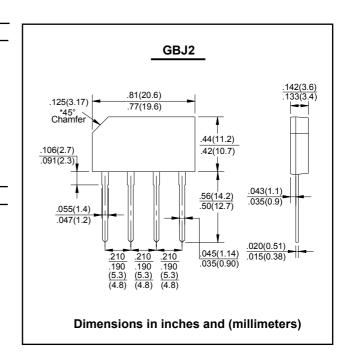
#### **FEATURES**

- Glass passivated chip junction
- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low reverse leakage current
- Low forward voltage drop
- High surge current capability

#### **MECHANICAL DATA**

- Case: Molded plastic, GBJ
- Terminals: Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed
- Epoxy: UL 94V-0 rate flame retardant
- Mounting Position: Any





#### **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 current derate by 20%.

Parameter	Symbols	GBJ 2005	GBJ 201	GBJ 202	GBJ 204	GBJ 206	GBJ 208	GBJ 210	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current with Heatsink at $T_{C}$ = 50 $^{\circ}$ C	I <sub>(AV)</sub>	2							А
Peak Forward Surge Current, 8.3 ms Single Half-Sine -Wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	60							Α
Maximum Forward Voltage at 2.0 A DC and 25 °C	V <sub>F</sub>	1.1							V
Maximum Reverse Current at T <sub>A</sub> = 25 °C at Rated DC Blocking Voltage T <sub>A</sub> = 125 °C	I <sub>R</sub>	5.0 300							μА
Typical Junction Capacitance 1)	Сл	40							pF
Typical Thermal Resistance 2)	R <sub>θJC</sub>	12							°C/W
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>S</sub>	-55 to +150							°C

- Note: 1. Mounted on 75 x 75 x 3.0mm Al. plate.
  - 2. Mounted on PCB at 9.5mm lead length with 12mm<sup>2</sup> copper pad.



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### **RATINGS AND CHARACTERISTIC CURVES**

