

### **GBJ15005** thru **GBJ1510**

# 15.0 A Single-Phase Silicon Bridge Rectifier Rectifier Reverse Voltage 50 to 1000V

### **Features**

- · Ideal for printed circuit board mounting
- This series is UL listed under the Recognized Component Index, file number E484648
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 260℃/5 seconds at 5 lbs (2.3kg) tension

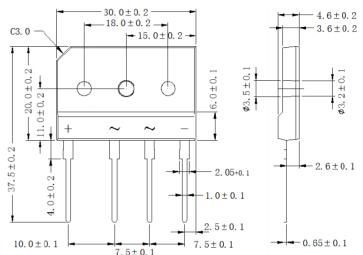
#### **Mechanical Data**

Case: Reliable low cost construction utilizing

molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Mounting Position: Any



Dimensions in inches and (milimeters)

**Maximum Ratings & Thermal Characteristics**Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

CHARACTERISTICS	SYMBOL	GBJ GBJ10005	GBJ GBJ1001	GBJ GBJ1002	GBJ GBJ1004	GBJ GBJ1006	GBJ GBJ1008	GBJ GBJ1010	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	I(AV) 15.0							A	
Rectified Current @ Tc=100°C (without heatsink)	•(***)				3.2				
Peak Forward Surage Current									
8.3ms Single Half Sine-Wave	<b>I</b> FSM 220							Α	
Super Imposed on Rated Load (JEDEC Method)									
Maximum Forward Voltage at 7.5A DC	VF	1.1							V
Maximum DC Reverse Current @ TJ=25℃	<b>I</b> R	10							uA
at Rated DC Blocking Voltage @ TJ=125℃	500								
Typical Thermal Resistance (Note2)	Rejc	1.5							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$ C
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\mathbb{C}$

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 300mm\*300mm\*1.6mm cu plate heatsink.

## Rating and Characteristic Curves (TA=25°c Unless otherwise noted) GBJ15005 thru GBJ1510

