

## GBJ/KBJ15005 thru GBJ/KBJ1510

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

### **Features**

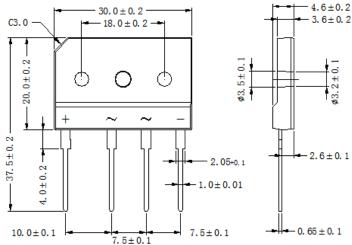
- Ideal for printed circuit board mounting
- This series is UL listed under the Recognized Component Index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 260°C/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/KBJ 15005	GBJ/KBJ 1501	GBJ/KBJ 1502	GBJ/KBJ 1504	GBJ/KBJ 1506	GBJ/KBJ 1508	GBJ/KBJ 1510	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 3.2							А
Rectified Current @ Tc=100°C (without heatsink)	I(AV)								
Peak Forward Surage Current									
8.3ms Single Half Sine-Wave	IFSM 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°C	In.	10							uA
at Rated DC Blocking Voltage @ TJ=125℃	IK	IR 500							uA
Typical Thermal Resistance (Note2)	Rejc	1.5							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$ C
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$

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) GBJ/KBJ15005 thru GBJ/KBJ1510

