



四川旭茂微科技有限公司

Sichuan Xu Mao Micro Technology Co.,Ltd **GBJ15005 thru GBJ1510**

## Features

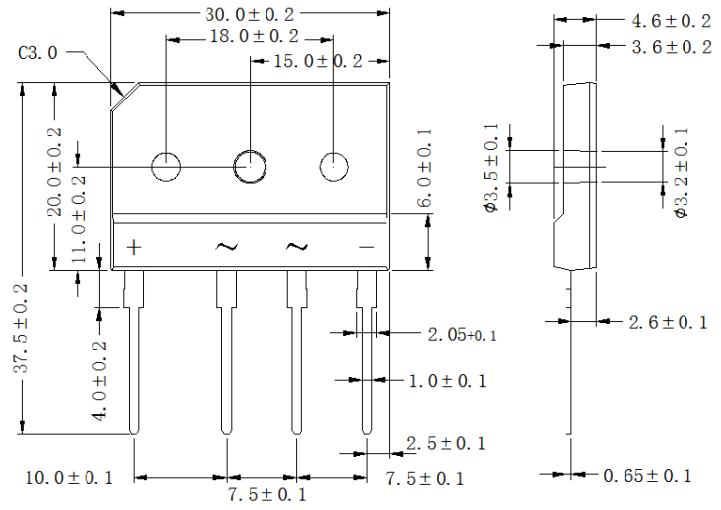
- Ideal for printed circuit board mounting
- This series is UL listed under the Recognized Component Index, file number E484648
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 260°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 (millimeters)

## Maximum Ratings & Thermal Characteristics

**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 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 1510	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	30	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 (with heatsink Note 2)	I <sub>(AV)</sub>	15.0						A	
Rectified Current @ T <sub>c</sub> =100°C (without heatsink)		3.2							
Peak Forward Surge Current 8.3ms Single Half Sine-Wave	I <sub>FSM</sub>	220						A	
Super Imposed on Rated Load (JEDEC Method)									
Maximum Forward Voltage at 7.5A DC	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current @ T <sub>j</sub> =25°C at Rated DC Blocking Voltage @ T <sub>j</sub> =125°C	I <sub>R</sub>	10 500							
Typical Thermal Resistance (Note2)	R <sub>θJC</sub>	1.5						°C/W	
Operating Temperature Range	T <sub>J</sub>	-55 to +150							
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						°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.



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