

### **GBJ15005 thru GBJ1510**

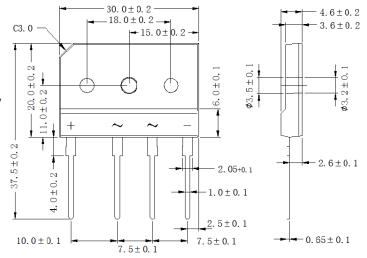
## 15.0 A Single-Phase Silicon Bridge Rectifier Rectifier Reverse Voltage 50 to 1000V

#### **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°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)

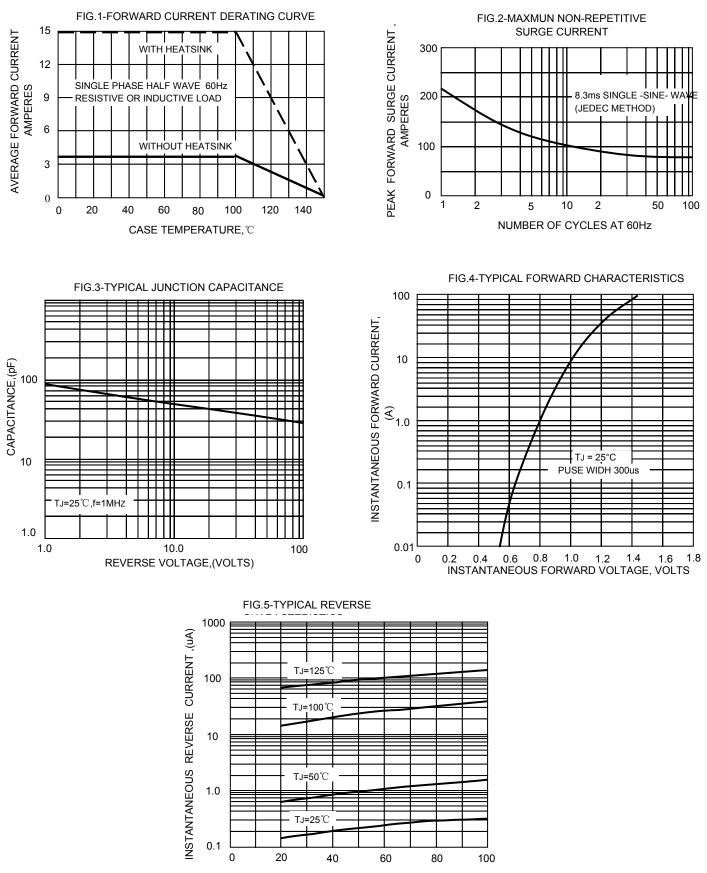
**Maximum Ratings & Thermal Characteristics** Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

CHARACTERISTICS	SYMBOL	GBJ 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 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)	kasa	15.0							А
Rectified Current @ Tc=100°C (without heatsink)	I(AV)	3.2							
Peak Forward Surage Current									T
8.3ms Single Half Sine-Wave	IFSM 220								А
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		IR 10 500							uA
at Rated DC Blocking Voltage @ TJ=125 °C	IR								
Typical Thermal Resistance (Note2)	Rejc	1.5							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-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.

# Rating and Characteristic Curves ( $TA=25^{\circ}C$ Unless otherwise noted ) GBJ15005 thru GBJ1510



PERCENT OF RATED PEAK REVERSE VOLTAGE,(%)