

GBJ10005 thru **GBJ1010**

10.0 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

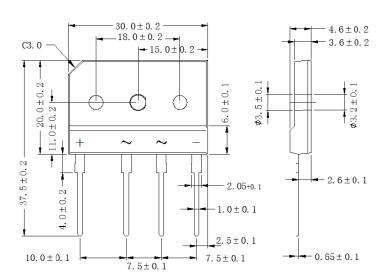
Case: Reliable low cost construction utilizing

molded plastic technique

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

Method 208

Mounting Position: Any



Dimensions in inches and (milimeters)

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

CHARACTERISTICS	SYMBOL	GBJ 10005	GBJ 1001	GBJ 1002	GBJ 1004	GBJ 1006	GBJ 1008	GBJ 1010	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)	long	10.0 2.5							Α
Rectified Current @ Tc=100°C (without heatsink)	I(AV)								
Peak Forward Surage Current									
8.3ms Single Half Sine-Wave	IFSM 200							Α	
Super Imposed on Rated Load (JEDEC Method)									
Maximum Forward Voltage at 5.0A DC	VF	1.1							V
Maximum DC Reverse Current @ TJ=25°C	lo.	IR 10 500							uA
at Rated DC Blocking Voltage @ TJ=125℃	IK								
Typical Thermal Resistance (Note2)	Rejc	2.3							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}\mathbb{C}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$ 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)

