

GBJ30005 thru GBJ3010

30.0 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

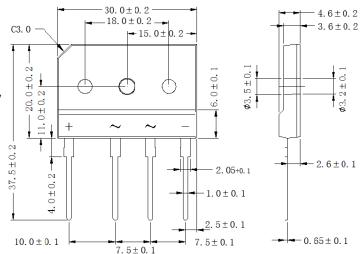
Mechanical Data

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 30005	GBJ 3001	GBJ 3002	GBJ 3004	GBJ 3006	GBJ 3008	GBJ 3010	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)	Land	30.0 3.5							А
Rectified Current @ Tc=100℃ (without heatsink)	I(AV)								
Peak Forward Surage Current									
8.3ms Single Half Sine-Wave	IFSM 370								Α
Super Imposed on Rated Load (JEDEC Method)									
Maximum Forward Voltage at 10.0A DC	VF	1.1							V
Maximum DC Reverse Current @ TJ=25℃	lr	10 500							uA
at Rated DC Blocking Voltage @ TJ=125℃	IK								
Typical Thermal Resistance (Note2)	Rejc	1.5							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
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) GBJ30005 thru GBJ3010

