

# **GBJ10005 THRU GBJ1010**

SINGLE PHASE 10.0 AMP BRIDGE RECTIFIERS

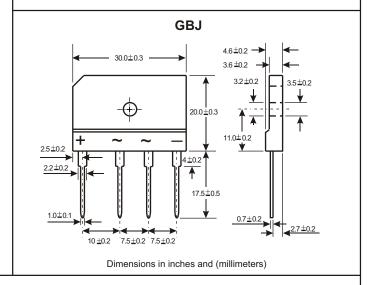


### **FEATURES**

- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Mounting position: Any

## VOLTAGE RANGE 50 to 1000 Volts CURRENT

10.0 Amperes



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		GBJ10005	GBJ1001	GBJ1002	GBJ1004	GBJ1006	GBJ1008	GBJ1010	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)		10.0							Α
Rectified Current at Tc=110°C (Without heatsink)			3.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)			200						
Maximum Forward Voltage Drop per Bridge Element at 5.0A D.C.			1.05						
Maximum DC Reverse Current	Ta=25°C	5.0						μА	
at Rated DC Blocking Voltage	Ta=100°C				500				μА
Typical Thermal Resistance R Jc (Note 1)		2.3							°C/W
Typical Thermal Resistance R JL (Note 2)			6.0						
Operating Temperature Range, TJ		-55 — +150							°C
Storage Temperature Range, Tsтс		-55 —+150							°C

#### NOTES:

- 1. Thermal Resistance from Junction to Case with device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.
- 2. Thermal Resistance from Junction to Lead without Heatsink.

REV 1.0 2019 JAN PAGE:1/2

#### RATING AND CHARACTERISTIC CURVES (GBJ10005 THRU GBJ1010)

