

GBJ50005 THRU GBJ5010

SINGLE PHASE 50.0 AMP BRIDGE RECTIFIERS

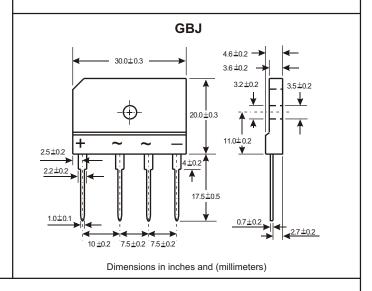


FEATURES

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

VOLTAGE RANGE 50 to 1000 Volts CURRENT

50.0 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		GBJ50005	GBJ5001	GBJ5002	GBJ5004	GBJ5006	GBJ5008	GBJ5010	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)		50.0							Α
.375"(9.5mm) Lead Length at Tc=100°C (Without heatsink)		5.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		400							Α
Maximum Forward Voltage Drop per Bridge Element at 25A D.C.		1.2							V
Maximum DC Reverse Current	Ta=25°C	10						uA	
at Rated DC Blocking Voltage	Ta=125°C				500				uA
Typical Junction Capacitance (Note 1)		85							PF
Typical Thermal Resistance R Jc (Note 2)		0.6							°C/W
Operating Temperature Range, TJ		-55 — +150							°C
Storage Temperature Range, Тsтс		-55 —+150							°C

NOTES:

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Thermal Resistance from Junction to Case with device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

REV 1.0 2019 JAN PAGE:1/2

RATING AND CHARACTERISTIC CURVES (GBJ50005 THRU GBJ5010)

