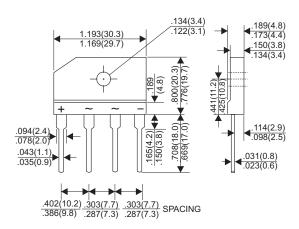


# **GBJ2501** THRU **GBJ2507**

### SINGLE PHASE BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 25.0 Ampere

#### **GBJ**



Dimensions in inches and (millimeters)

#### **FEATURES**

- \* Glass Passivated Die Construction
- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability

### **MECHANICAL DATA**

- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

## **Applications**

\* General purpose use in AC/DC bribge full wave rectification, for power supply ,industrial automation applications ,etc

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	GBJ2501	GBJ2502	GBJ2503	GBJ2504	GBJ2505	GBJ2506	GBJ2507	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)		25.0						
.375"(9.5mm) Lead Length at Tc=100°C (With heatsink)		4.2						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		350						Α
Maximum Forward Voltage Drop per Bridge Element at 12.5A D.C		1.05						
Maximum DC Reverse Current Ta=25 ℃		10						μА
at Rated DC Blocking Voltage Ta=125°C	500							μА
Typical Junction Capacitance (Note 1)		85						PF
Typical Thermal Resistance Rθ <sub>J</sub> c (Note 2)		0.6					°C/W	
Operating Temperature Range, TJ		-55 — +150						°C
Storage Temperature Range, Tstc		-55 —+150						

#### 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.

## RATING AND CHARACTERISTIC CURVES (GBJ2501 THRU GBJ2507)

