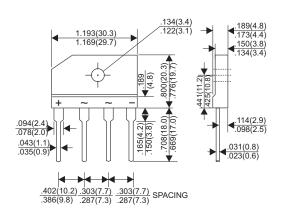


# **GBJ1001** THRU **GBJ1007**

## SINGLE PHASE BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 10.0 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**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Axial leads, solderable per
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

#### 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	GBJ1001	GBJ1002	GBJ1003	GBJ1004	GBJ1005	GBJ1006	GBJ1007	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							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)	170							Α
Maximum Forward Voltage Drop per Bridge Element at 5.0A D.C.	1.1							V
Maximum DC Reverse Current Ta=25 ℃	5.0						μА	
at Rated DC Blocking Voltage Ta=100°C	500							μА
Typical Thermal Resistance Rθμc (Note 1)	2.3						°C/W	
Typical Thermal Resistance Rθл (Note 2)	6.0						°C/W	
Operating Temperature Range, T <sub>J</sub>	-55—+150							°C
Storage Temperature Range, TsTG	-55 — +150							°C

#### NOTES:

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

# RATING AND CHARACTERISTIC CURVES (GBJ1001 THRU GBJ1007)

