



GBJ20005-GBJ2010

20.0AMP Glass Passivated Bridge Rectifier

GBJ

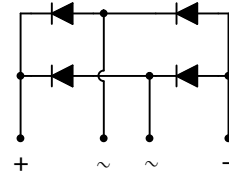
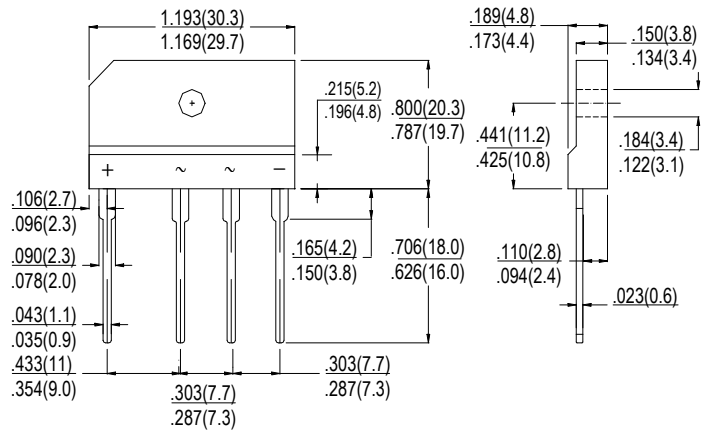


Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic, GBJ
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

TYPE NUMBER	SYMBOL	GBJ 20005	GBJ 2001	GBJ 2002	GBJ 2004	GBJ 2006	GBJ 2008	GBJ 2010	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}								
DC Blocking Voltage	V _{DC}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T _C =90℃	I _{F(AV)}	20.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	250							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	373.5							A ² s
Forward Voltage per element @I _F =15A @I _F =30A	V _{FM}	1.0 1.1							V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	I _R	5.0 500							uA
Typical Junction Capacitance per leg	C _J	85							pF
Between junction and ambient, Without heatsink	R _{θJA}	22							℃/W
Between junction and case, With heatsink	R _{θJC}	1.0							
Operating and Storage Temperature Range	T _J , T _{STG}	-55to+150							℃

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

Ratings And Characteristic Curves

