



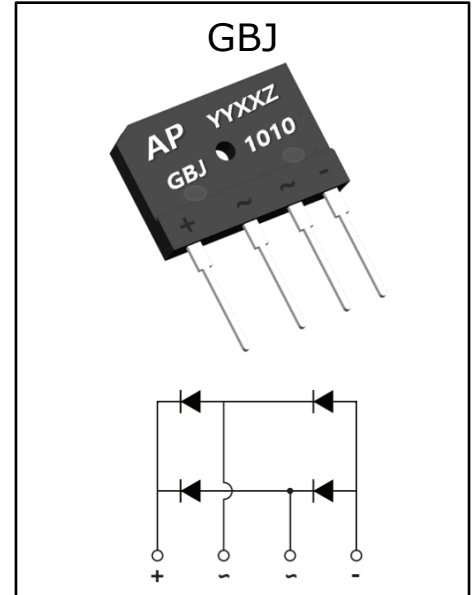
Single Phase 10Amp Glass passivated Bridge Rectifier

Features

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C / 10 seconds at terminals

Mechanical Data

- **Case** : GBJ (Molded plastic body)
- **Terminals** : Lead solderable per MIL-STD-750, Method 2026
- **Polarity** : Polarity symbol marking on body
- **Mounting Position** : Any



Maximum Ratings Characteristics

TA = 25°C unless otherwise specified

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbol	GBJ 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 1510	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _(AV)	15							A
Peak Forward Surge Current 8.3ms Single Half sine Wave Superimposed on Rated Load	I _{FSM}	220							A
Rating for fusing (t=8.3ms, Ta=25°C)	I²t	200.86							A²s
Maximum Instantaneous Forward Voltage at 7.5A	V _F	1.10							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _a = 25°C	I _R	5.0						uA
	T _a = 125°C		500						
Typical junction capacitance (Note 1)	C _J	60.0							pF
Between junction and ambient, without heatsink	R _{θJA}	12							°C/W
Between junction and case, with heatsink	R _{θJA}	1.2							°C/W
Operating Junction temperature Range	T _J	-55 ~ +150							°C
Storage Temperature Range	T _{STG}	-55 ~ +150							°C

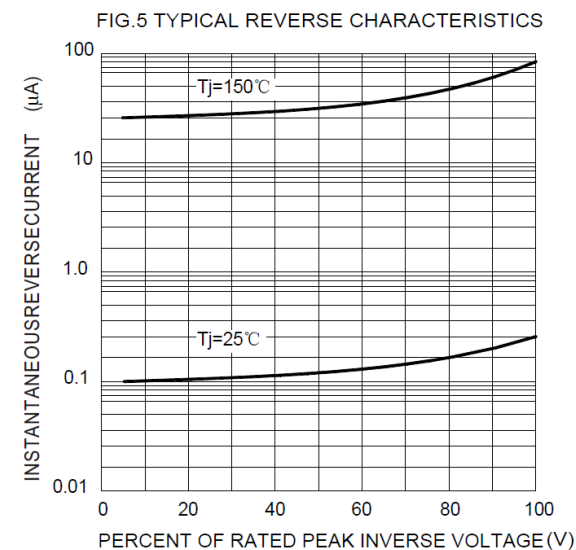
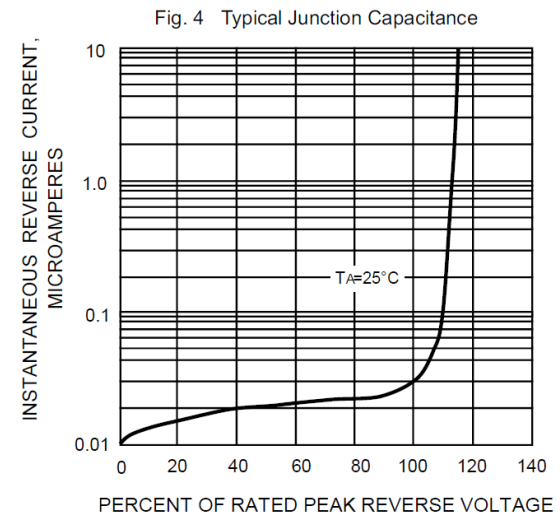
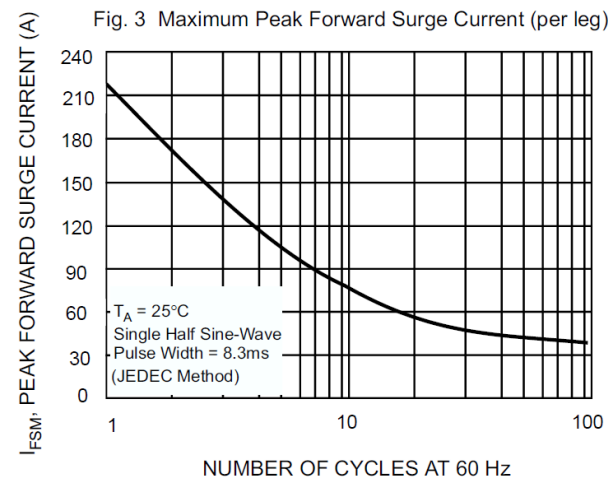
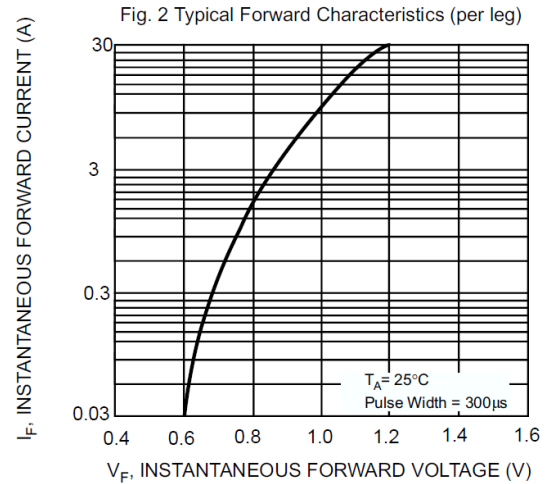
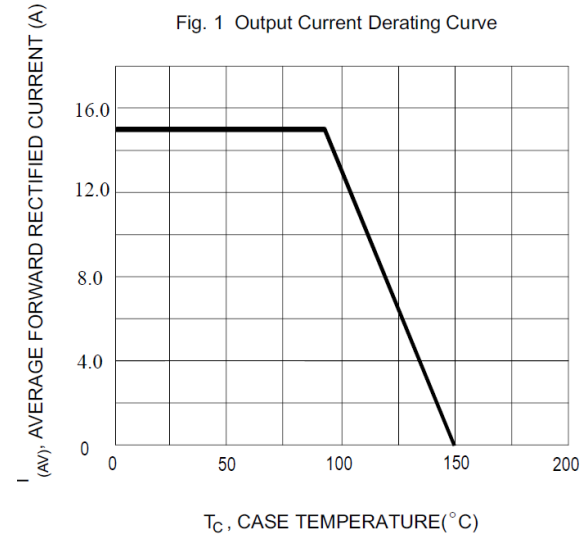
Note

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.



Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise specified)

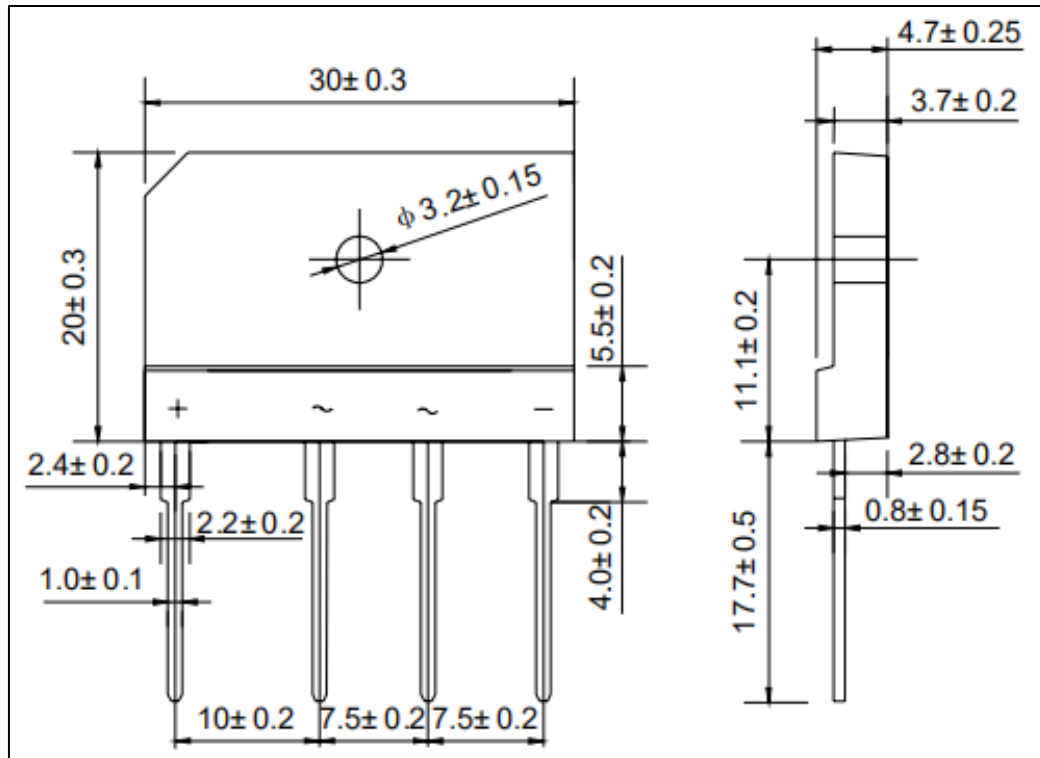




Package Outline

GBJ

Unit : mm



Ordering Information

Part No	Package	Packing	Finish	Halogen	Packing Unit
GBJ15005 ~ GBJ1510	GBJ	Tube	Sn	Free	Tube : 20ea Inner : 200ea MOQ : 2,000ea



Revision History

No	Date	Contents
0	2022-04-12	Initial Brief Datasheet Release

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