



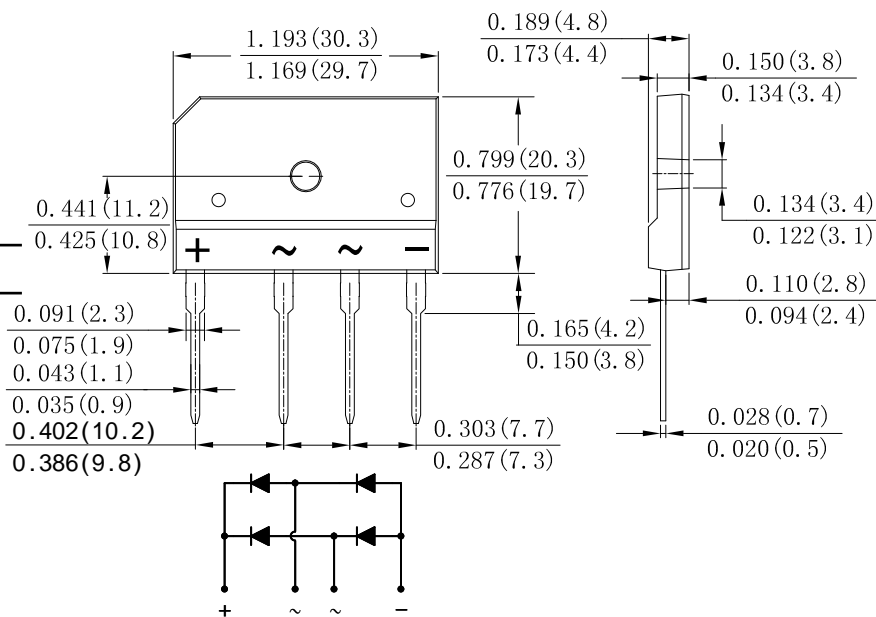
# GBJ20005A THRU GBJ2010A

Single Phase 20.0 AMP Glass Passivated Bridge Rectifier

## Features

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

## Case: GBJ



dimensions in inches and (millimeters)

## 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

## 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 20005A	GBJ 2001A	GBJ 2002A	GBJ 2004A	GBJ 2006A	GBJ 2008A	GBJ 2010A	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$								
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	$V_{DC}$								
RMS Reverse Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_c=90^\circ C$	$I_F(AV)$	20.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	240							A
$I^2t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2t$	239.04							$A^2s$
Forward Voltage per element @ $I_F=10A$ @ $I_F=20A$	$V_{FM}$	1.0 1.1							V
Peak Reverse Current @ $T_J=25^\circ C$ At Rated DC Blocking Voltage @ $T_J=125^\circ C$	$I_R$	5.0 200							$\mu A$
Dielectric Strength	$V_{ids}$	2500							V
The proposed installation torque Max torque	$T_{or}$	5.0 8.0							Kgf.cm
Typical Junction Capacitance (Note 2)	$C_J$	75							pF
Between junction and ambient, Without heatsink	$R_{\theta JA}$	22							$^\circ C/W$
Between junction and case, With heatsink	$R_{\theta JC}$	1.5							
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55to+150							$^\circ C$

Note: 1. Unit case mounted on aluminum plate heatsink

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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Fig. 1 Forward Current Derating Curve

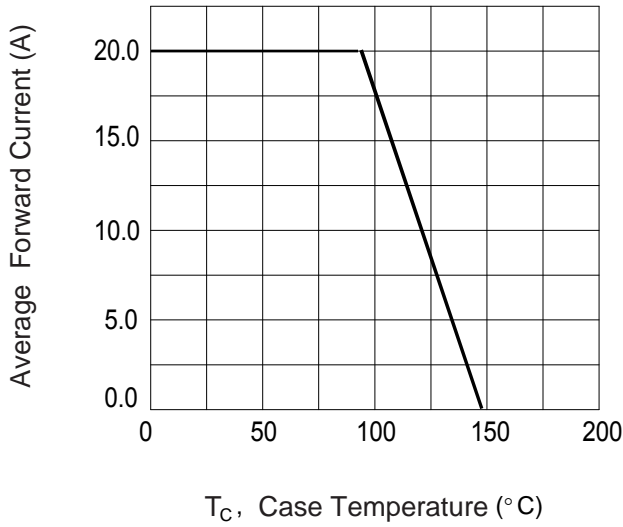


Fig. 2 Typ. Forward Characteristics

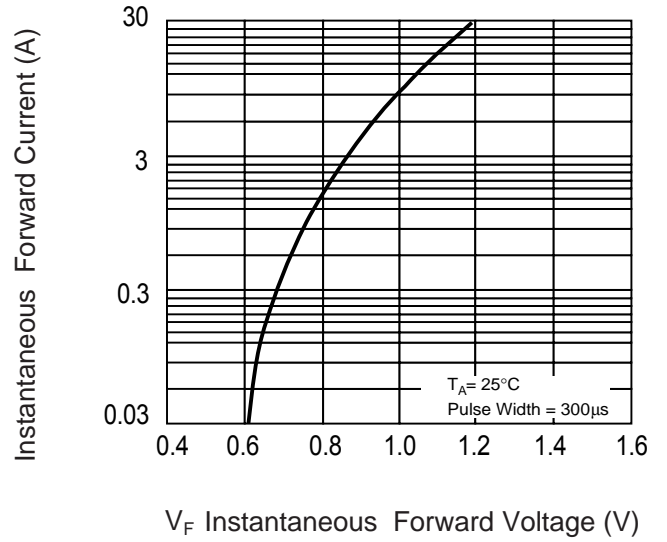


Fig.3 Maximum Peak Forward Surge Current

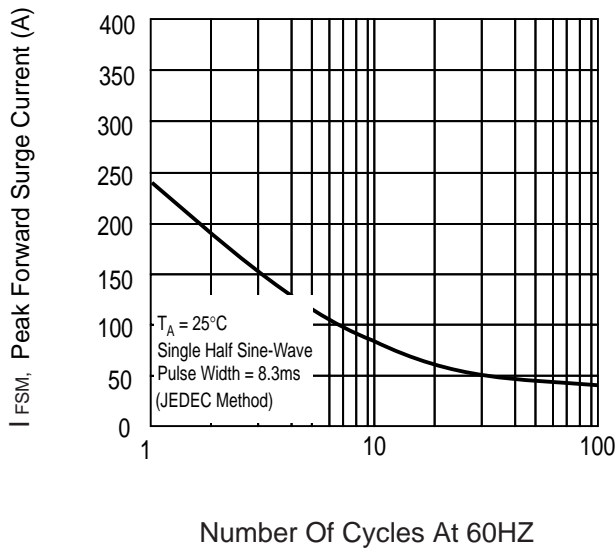


Fig.4 Typical Junction Capacitance

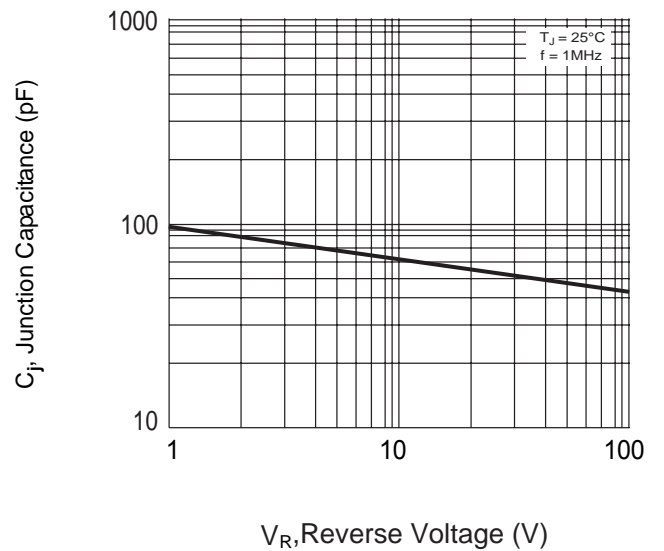
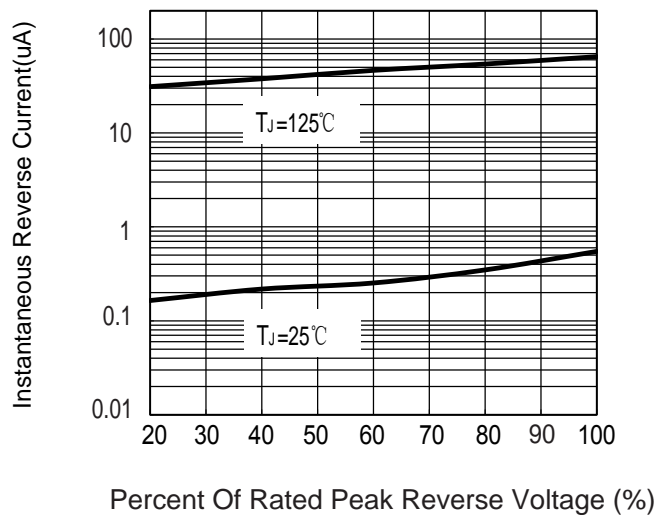


Fig.5 Typical Reverse Characteristics





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