



GBJ30005 THRU GBJ3010

Single Phase 30.0 AMP Glass Passivated Bridge Rectifier

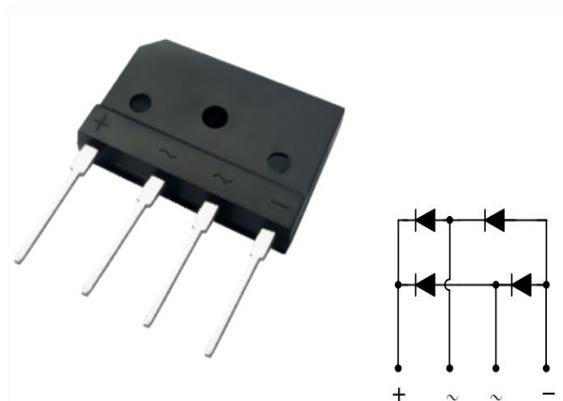
1.Features

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

GBJ

2.Mechanical Data

- Case:Molded Plastic,GBJ
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026
- Marking:marked on body



3.Maximum Ratings and Electrical Characteristics

Rating at 25℃ 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 30005	GBJ 32001	GBJ 3002	GBJ 3004	GBJ 3006	GBJ 3008	GBJ 3010	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	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 °C	I _{F(AV)}	30							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	350							A
I ² t Rating for fusing (t <8.3ms)	I ² t	508.375							A ² s
Forward Voltage per element @I _F =15A	V _{FM}	1.05							V
Peak Reverse Current @T _J =25 °C	I _R	5							uA
At Rated DC Blocking Voltage @T _J =125 °C		200							
Dielectric Strength	V _{ids}	2500							V
The proposed installation torque Max torque	Tor	Typ.5 Max.8							Kgf.cm
Typical Junction Capacitance (Note 2)	C _J	110							pF
Typical Thermal Resistance	R _{θJA}	22							°C/W
	R _{θJC}	0.8							
Operating Temperature Range	T _J	-55 to+150							°C
Storage Temperature Range	T _{STG}	-55 to+150							°C

Note:

1. Unit case mounted on aluminum plate heatsink
2. Measured at 1.0 MHz and applied reverse voltage of 4.1V D.C



4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

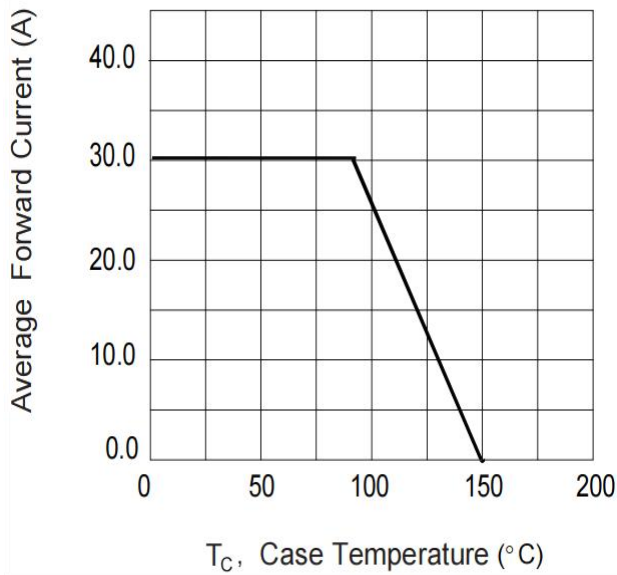


Fig. 2 Typ. Forward Characteristics

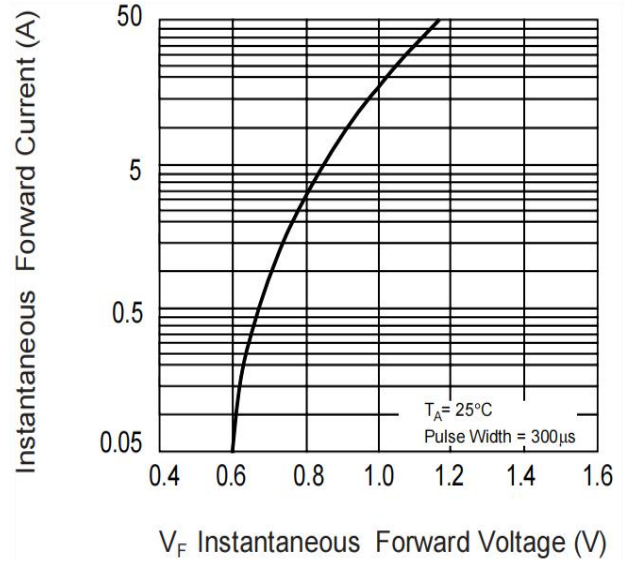


Fig.3 Forward Surge Current Capability

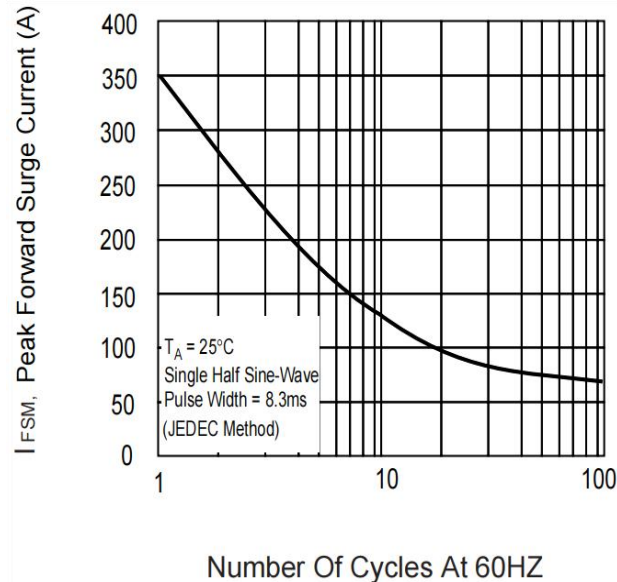
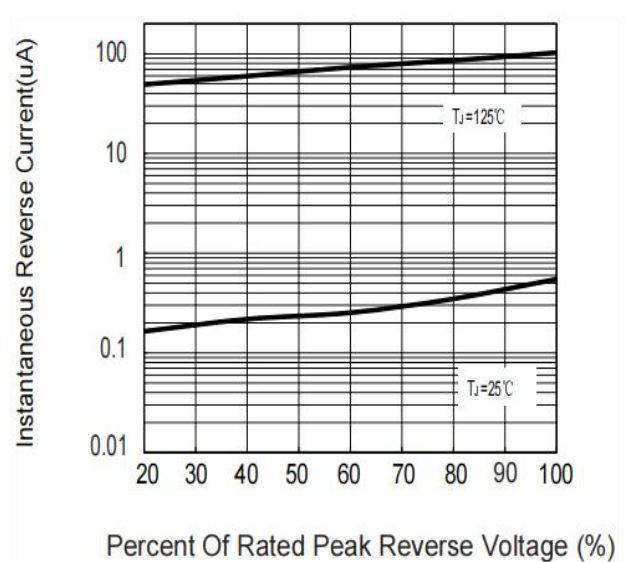


Fig.4 Typical Reverse Characteristics

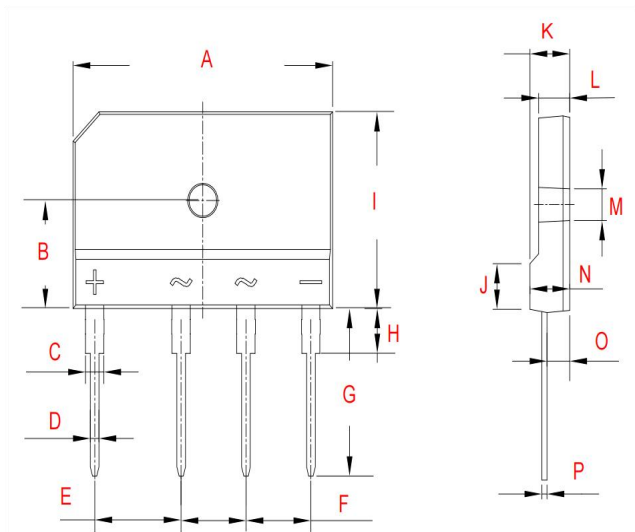




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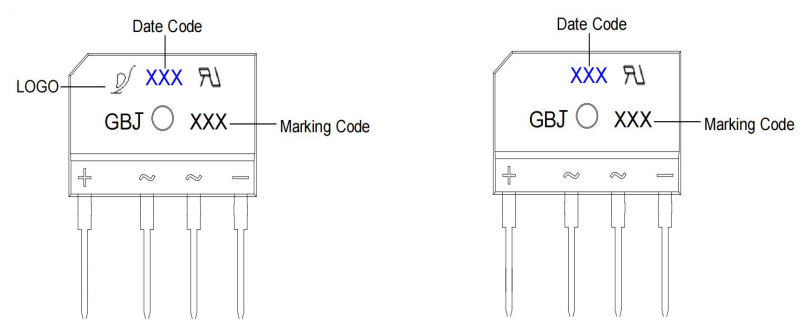
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5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	1.169	1.193	29.70	30.30
B	0.425	0.441	10.80	11.20
C	0.075	0.091	1.90	2.30
D	0.035	0.043	0.90	1.10
E	0.354	0.433	9.00	11.00
F	0.287	0.303	7.30	7.70
G	0.669	0.709	17.00	18.00
H	0.150	0.165	3.80	4.20
I	0.776	0.799	19.70	20.30
J	0.189	0.205	4.80	5.20
K	0.173	0.189	4.40	4.80
L	0.134	0.150	3.40	3.80
M	0.122	0.134	3.10	3.40
N	0.173	0.189	4.40	4.80
O	0.094	0.110	2.40	2.80
P	0.020	0.028	0.50	0.70

6. Part Marking System



7. Package Information

Package	Miniimum Package (pcs)	InnerBox Quantity(pcs)	OuterCarton Quantity(pcs)	Delivery Mode
GBJ	15	180	1800	Tube



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