



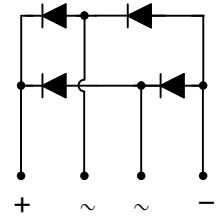
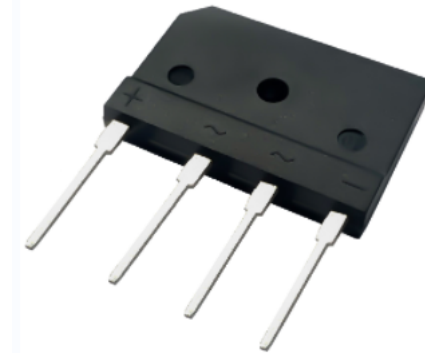
GBJ10005 THRU GBJ1010

10.0AMP Glass Passivated Bridge Rectifier

1. Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge 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

Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER		SYMBOL	GBJ10005	GBJ1001	GBJ1002	GBJ1004	GBJ1006	GBJ1008	GBJ1010	UNIT
Maximum Recurrent 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
Average Rectified Output Current	(with heatsink) @T _C =100 °C (without heatsink)@T _A =25 °C	I _{F(AV)}	10 3.5							A
Peak Forward Surge Current 8.3ms @T _J =25 °C Single half sine-wave superimposed @T _J =125 °C on rated load (JEDEC Method)		I _{FSM}	240 192							A
I ² t Rating for Fusing (t < 8.3ms)		I ² t	239							A ² S
Maximum Instantaneous Forward Voltage @I _F =5A @I _F =10A		V _{FM}	1.0 1.1							V
Maximum DC reverse current @T _J =25 °C at rated DC blocking voltage @T _J =125 °C		I _R	5.0 200							uA
Dielectric Strength		V _{ids}	2500							V
The proposed installation torque Max torque		T _{or}	Typ. 5.0 Max 8.0							Kgf.cm
Typical Junction Capacitance (Note 1)		C _j	70							pF
Typical Thermal Resistance		R _{θJA}	22							°C/W
		R _{θJL}	3.0							
		R _{θJC}	5.0							
Operating Temperature Range		T _j	-55 to+150							°C
Storage Temperature Range		T _{STG}	-55 to+150							°C

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

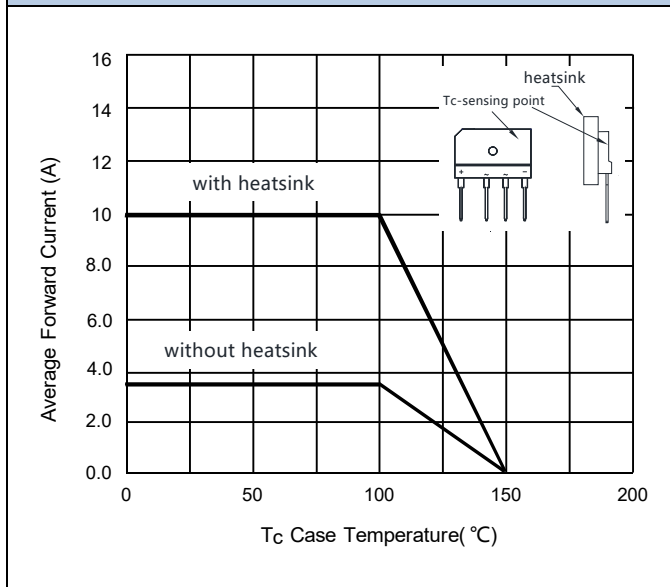


Fig. 2 Typical Forward Characteristics

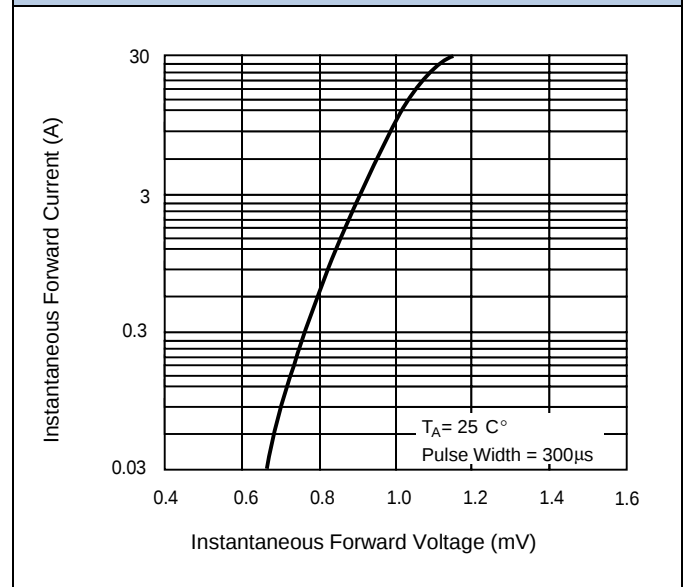


Fig. 3 Forward Surge Current Capability

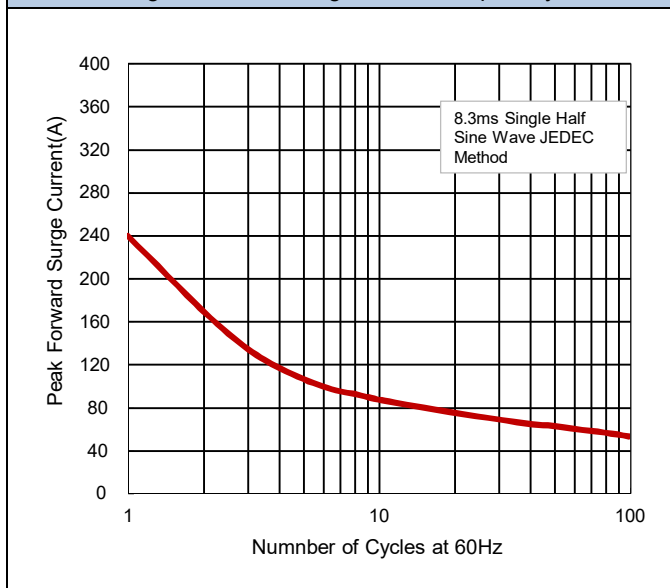
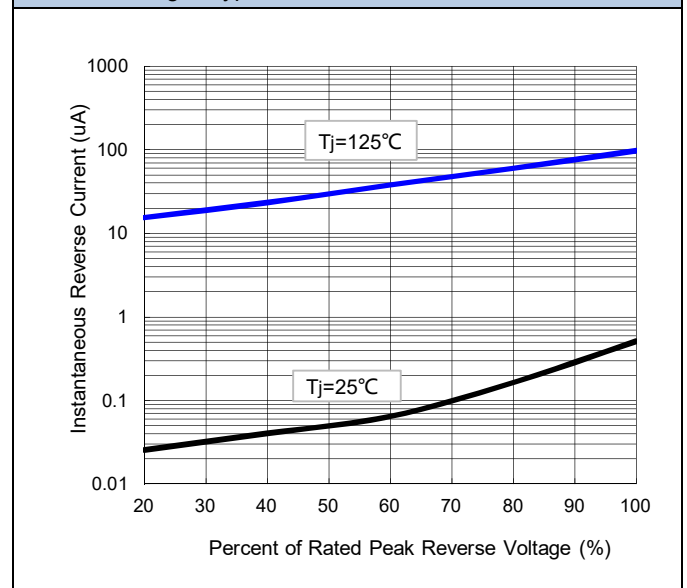


Fig.4 Typical Reverse Characteristics

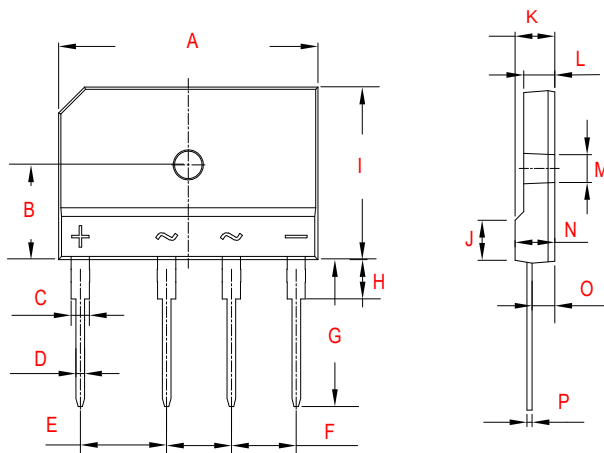




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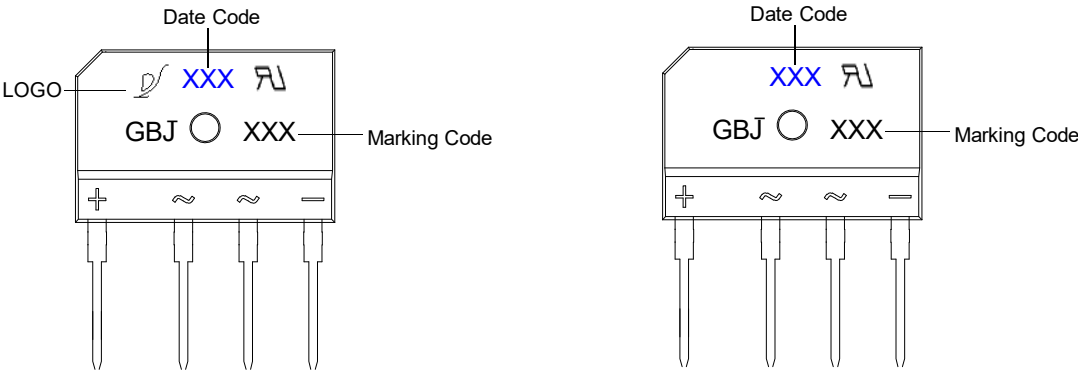
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5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	1.169	1.193	29.7	30.3
B	0.425	0.441	10.8	11.2
C	0.075	0.091	1.9	2.3
D	0.035	0.043	0.9	1.1
E	0.354	0.433	9.0	11.0
F	0.287	0.303	7.3	7.7
G	0.699	0.709	17.0	18.0
H	0.150	0.165	3.8	4.2
I	0.776	0.799	19.7	20.3
J	0.189	0.205	4.8	5.2
K	0.173	0.189	4.4	4.8
L	0.134	0.150	3.4	3.8
M	0.122	0.134	3.1	3.4
N	0.173	0.189	4.4	4.8
O	0.094	0.110	2.4	2.8
P	0.020	0.028	0.5	0.7

6. Part Marking System



7. Package Information

Package	Miniimum Package (pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
GBJ	15	180	1800	Tube



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