



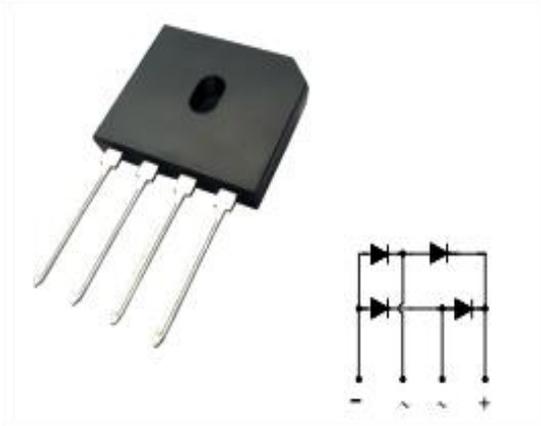
GBU10005A THRU GBU1010A

Single Phase 10.0AMP Glass Passivated Bridge Rectifier

1.Features

- Glass Passivated Die Construction
- Low forward voltage drop
- High surge current capability
- Plastic material-UL flammability 94V-0
- High current capability

GBU



2.Mechanical Data

- Case:GBU Molded Plastic .
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity:As Marked on Case.
- Marking Information: Type Number.
- Mounting Position : Any.
- Lead Free: For RoHS / Lead Free Version

3.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	GBU 10005A	GBU 1001A	GBU 1002A	GBU 1004A	GBU 1006A	GBU 1008A	GBU 1010A	Unit
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 @ $T_c=90^\circ C$	$I_{F(AV)}$	10							A
Non-Repetitive Peak Forward Surge Current @ $T_j=25^\circ C$	I_{FSM}	200							A
8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) @ $T_j=125^\circ C$		160							
Non-Repetitive Peak Forward Surge Current 1ms @ $T_j=25^\circ C$	I_{FSM}	400							A
Single half sine-wave superimposed on rated load (JEDEC Method) @ $T_j=125^\circ C$		320							
I^2t Rating for fusing (t < 8.3ms)	I^2t	166							A^2s
Forward Voltage per element @ $I_F=5A$	V_{FM}	1.0							V
@ $I_F=10A$		1.1							
Peak Reverse Current @ $T_j=25^\circ C$	I_R	5							uA
At Rated DC Blocking Voltage @ $T_j=125^\circ C$		200							
Dielectric Strength	V_{ids}	2500							V
The proposed installation torque	Tor	5							Kgf.cm
Max torque		8							
Typical Junction Capacitance (Note 1)	C_J	50							pF
Typical Thermal Resistance	$R_{\theta JA}$	30.9							$^\circ C/W$
	$R_{\theta JC}$	7.9							
	$R_{\theta JL}$	5.1							
Operating Temperature Range	T_J	-55 to +150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

Note:

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



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4. Rating And Characteristic Curves

Fig. 1 Forward Current Derating Curve

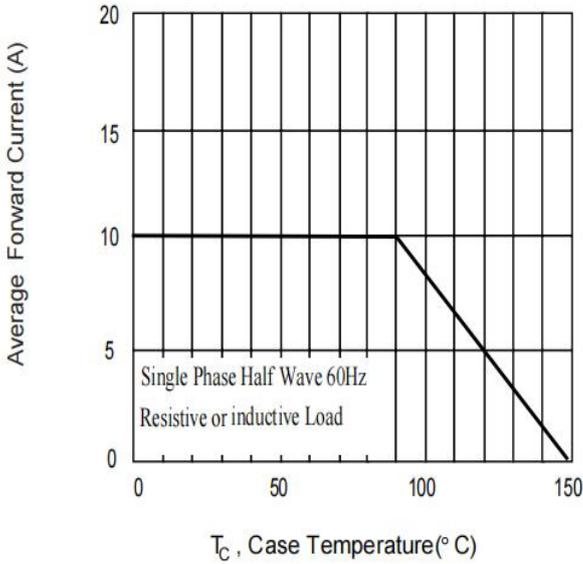


Fig. 2 Typ. Forward Characteristics

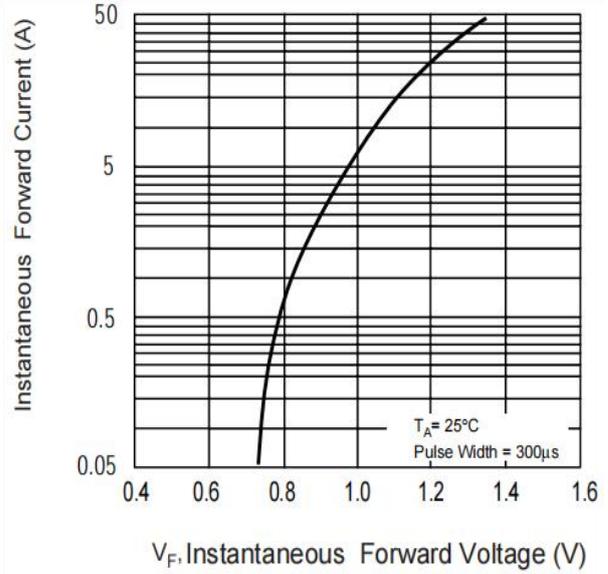


Fig.3 Maximum Peak Forward Surge Current

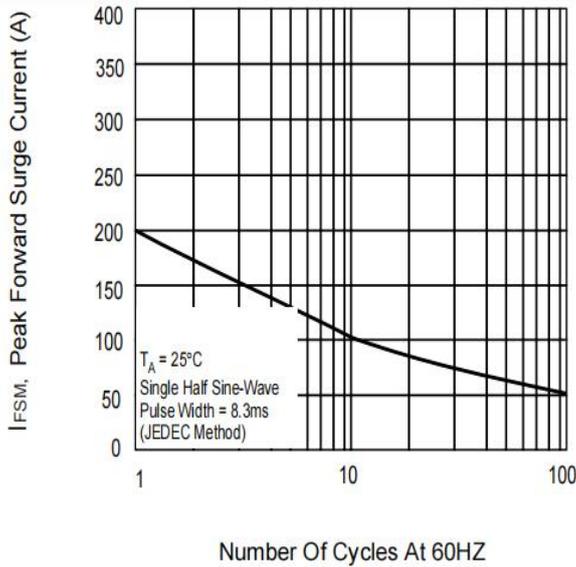
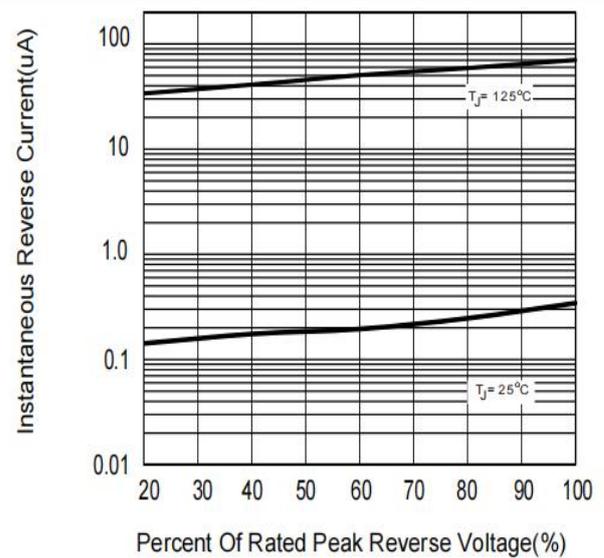


Fig.4 Typical Reverse Characteristics

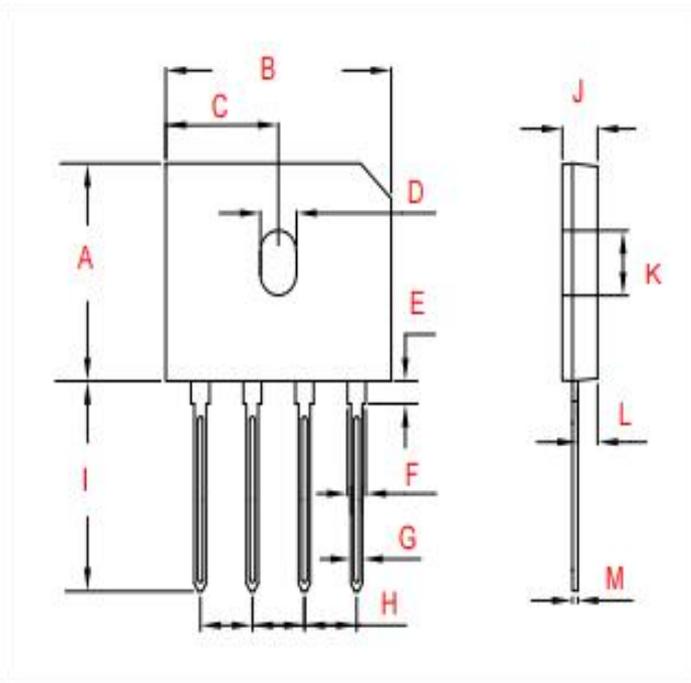




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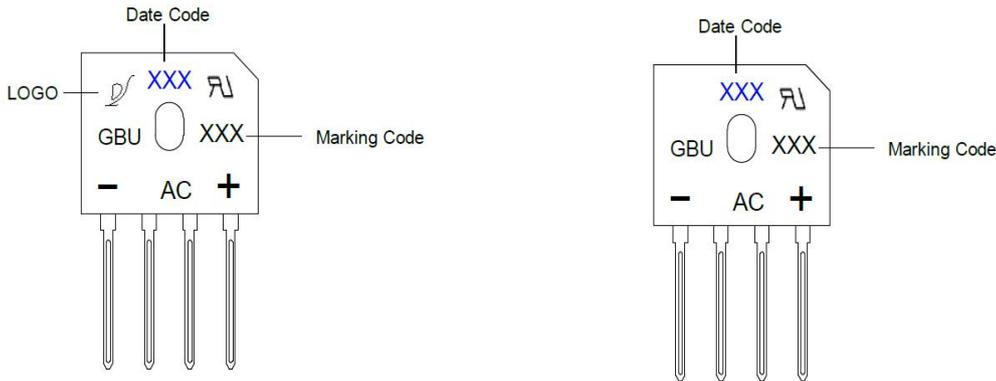
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5. Dimensions



Dimensions	Inches		Millimeters	
	Min	Max	Min	Max
A	0.720	0.752	18.30	19.10
B	0.858	0.874	21.80	22.20
C	0.429	0.437	10.90	11.10
D	0.146	0.154	3.70	3.90
E	0.083	0.106	2.10	2.70
F	0.075	0.091	1.90	2.30
G	0.035	0.051	0.90	1.30
H	0.189	0.209	4.80	5.30
I	0.681	0.720	17.30	18.30
J	0.130	0.142	3.30	3.60
K	0.217	0.232	5.50	5.90
L	0.071	0.087	1.80	2.20
M	0.018	0.022	0.46	0.56

6. Part Marking System



7. Package Information

Package	Minimum Package (pcs)	InnerBox Quantity(pcs)	OuterCarton Quantity(pcs)	Delivery Mode
GBU	20	1000	2000	Tube



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