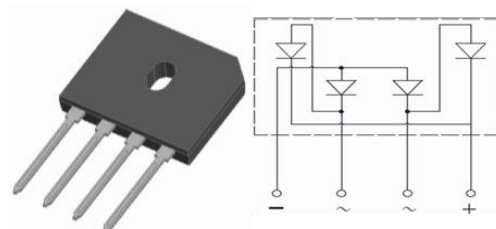


Reverse Voltage 50~1000V Ountput Current25A

Features

- Glass passivated Bridge Rectifiers
- Ideal for PCB
- High surge current capability
- High case dielectric strength of 2500 VRMS
- Solder dip 275 °C max. 7 s, per JESD 22-B106



GBU

Typical Applications

- General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

- Case:GBU,Molding compound meets UL 94V-0 flammability rating,RoHS-compliant
- Terminals:Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body

Maximum Ratings (TA = 25 °C unless otherwise noted)

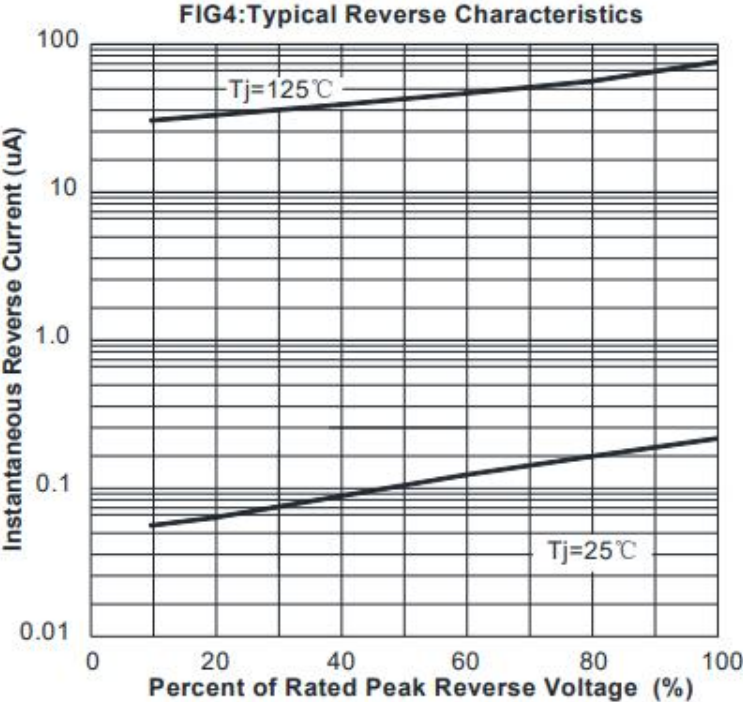
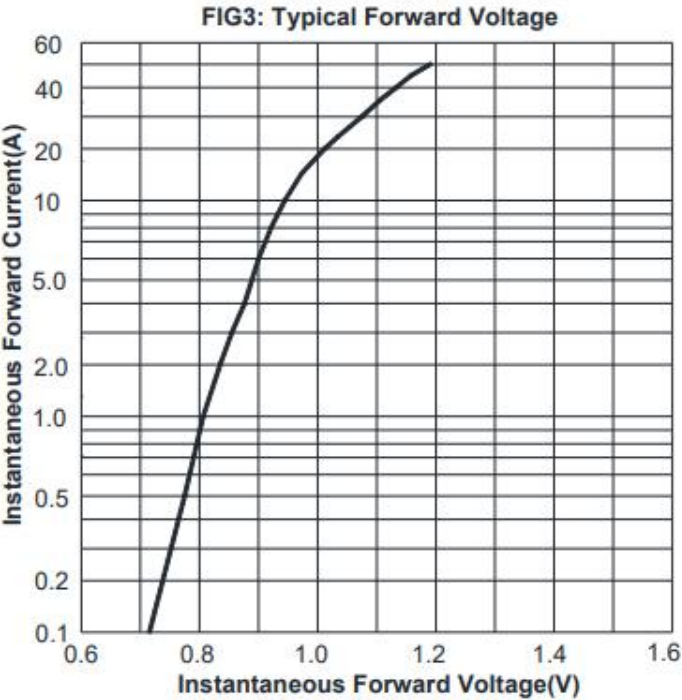
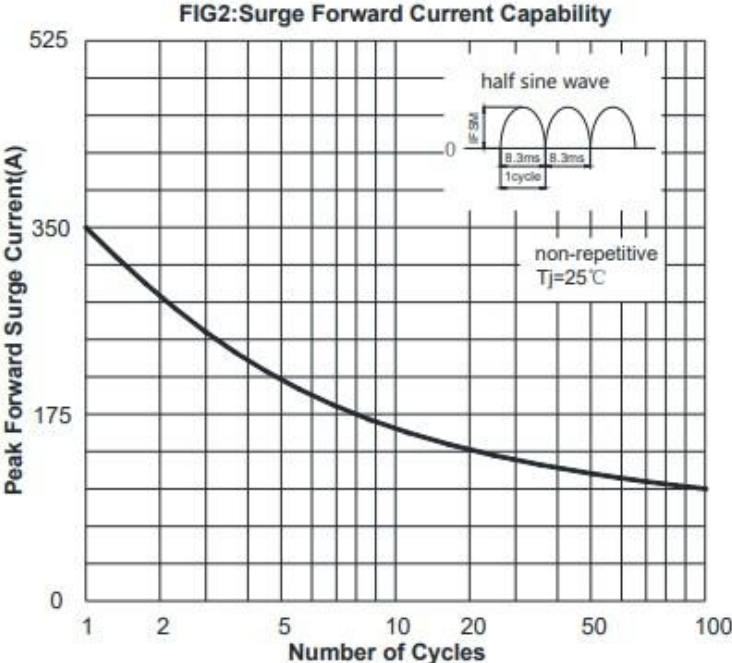
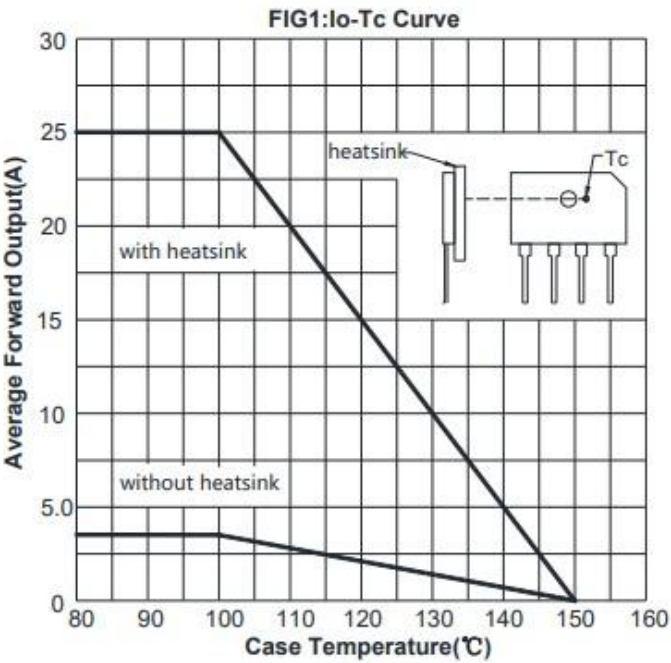
Parameter		Symbol	GBU 25A	GBU 25B	GBU 25D	GBU 25G	GBU 25J	GBU 25K	GBU 25M	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V _{DC}	50	100	200	400	600	800	1000	V
Average rectified output current at 60Hz sinewave, R-load	TC=80°C	I _{F(AV)}	25.0							A
	TA=25°C		3.5							
Peak forward surge current singlesine-wave superimposed on rated load (JEDECMethod)		I _{FSM}	300							A
Rating for fusing (t≤8.3ms)		I ² t	374							A ² s
Operating junction temperaturerange		T _J	-55 to 150							°C
Storage temperature range		T _{STG}	-55 to 150							°C
case temperature(Max)		T _C	145							°C

Electrical Characteristics (TA = 25 °C unless otherwise noted)

Parameter	Test Conditions	Symbol	GBU 25A	GBU 25B	GBU 25D	GBU 25G	GBU 25J	GBU 25K	GBU 25M	Unit
Maximum instantaneous forward voltage	I _F =12.50A	V _F	1.0							V
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I _R	5.0							μA
	T _A =125°C		250							
Typical thermal resistance		R _{θJA}	25							°C/W
		R _{θJC}	1.0							

Ratings and Characteristics Curves

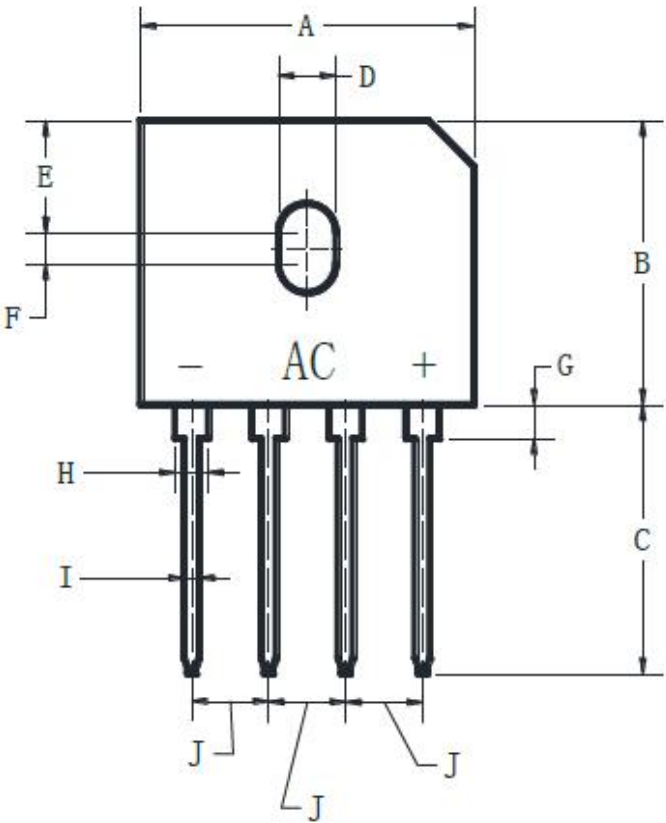
(TA = 25°C unless otherwise noted)



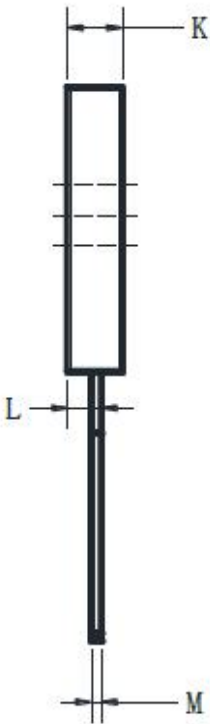
Package Outline Dimensions

Dimensions in millimeters

First angle projection



elevation view



left elevation

GBU		
Dim	Min	Max
A	21.70	22.30
B	18.20	19.10
C	17.20	18.29
D	3.40	4.10
E	7.40	7.90
F	1.65	2.16
G	1.53	2.54
H	1.65	2.54
I	0.90	1.27
J	4.80	5.33
K	3.30	3.56
L	2.30	3.00
M	0.45	0.56

Document Version	Date of release	Discription of changes
Rev.A	2024/07/24	Released Datasheet

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