

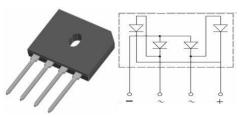
GOOD-ARK Electronics

# Reverse Voltage 50~1000V Output Current10A

#### Features

- •Glass passivated Bridge Rectifiers
- Ideal for PCB
- •High surge current capability
- •Solder dip 275 °C max. 7 s, per JESD 22-B106

### **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 10A	GBU 10B	GBU 10D	GBU 10G	GBU 10J	GBU 10K	GBU 10M	Unit
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Average rectified output current at 60Hz sinewave, R-load	TC=80°C		10.0							А
	TA=25°C	I <sub>F(AV)</sub>	3.2							
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)		I <sub>FSM</sub>	175						А	
Rating for fusing (t≪8.3ms)		l <sup>2</sup> t	128						A <sup>2</sup> s	
Operating junction temperature range		TJ	-55 to 150						°C	
Storage temperature range		T <sub>STG</sub>	-55 to 150							°C



Electrical Characteristics (TA = 25 °C unless otherwise noted)										
Parameter	Test Conditions	Symbol	GBU 10A	GBU 10B	GBU 10D	GBU 10G	GBU 10J	GBU 10K	GBU 10M	Unit
Maximum instantaneous forward voltage	I <sub>F</sub> =5.0A	V <sub>F</sub>				1.0				v
Maximum DC reverse current at rated DC blocking voltage	TA=25°C		5.0							
	TA=125° C	I <sub>R</sub>	250							μA
		Røja				25				
Typical thermal resistance		Røjc	2.3							° C/W

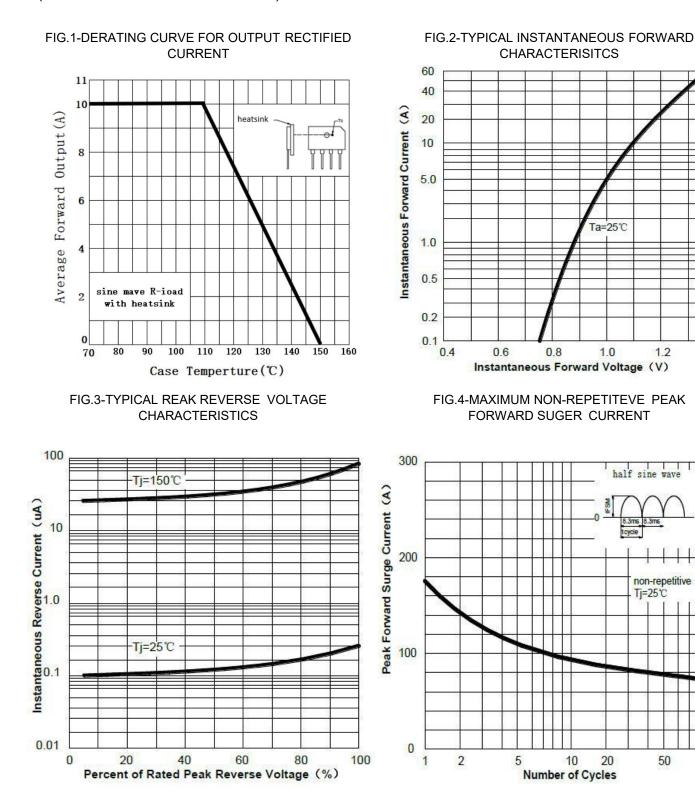


1.2

1.4

### **Ratings and Characteristics Curves**

(TA = 25°C unless otherwise noted)



100

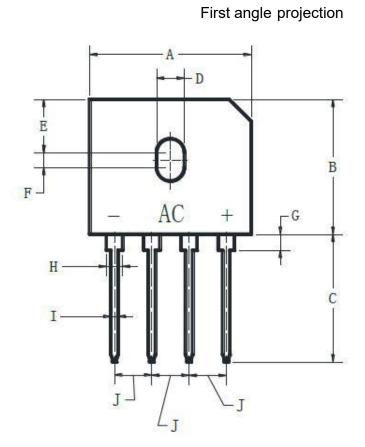
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**GBU10A thru GBU10M** GOOD-ARK Electronics

## **Package Outline Dimensions**

**Dimensions in millimeters** 



elevation view



GBU						
Dim	Min	Max				
А	21.70	22.30				
В	18.20	19.10				
С	17.20	18.29				
D	3.40	4.10				
Е	7.40	7.90				
F	1.65	2.16				
G	1.53	2.54				
Н	1.65	2.54				
I	0.90	1.27				
J	4.80	5.33				
К	3.30	3.56				
L	2.30	3.00				
М	0.45	0.56				

left elevation

### **Revision History**

Document Version	Date of release	Discroption of changes
Rev.A	2021/3/1	Released Datasheet
Rev.B	2023/12/17	Modify document format



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