



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

## Product Specification

▶ Domestic	Part Number	GBU10005 THRU GBU1010
▶ Overseas	Part Number	GBU10005 THRU GBU1010
▶ Equivalent	Part Number	GBU10005 THRU GBU1010



EV is the abbreviation of name EVVO

## GBU Plastic-Encapsulate Bridge Rectifier

### ● Features

- Ideal for printed circuit board
- Small size, simple installation
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260/10 seconds at 5lbs., (2.3kg) tension

**Reverse Voltage**

50-1000 V

**Forward Current**

10 Ampere

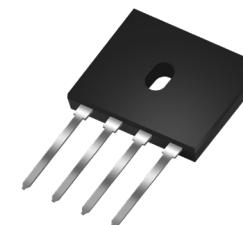
### ● Applications

General purpose 1 phase Bridgerectifier applications

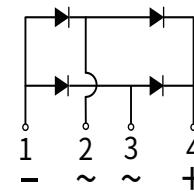
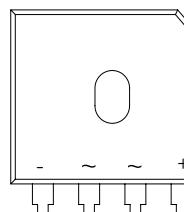
**GBU**

### ● Mechanical Data

- Case: GBU  
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Cathode line denotes the cathode end



### ● Function Diagram

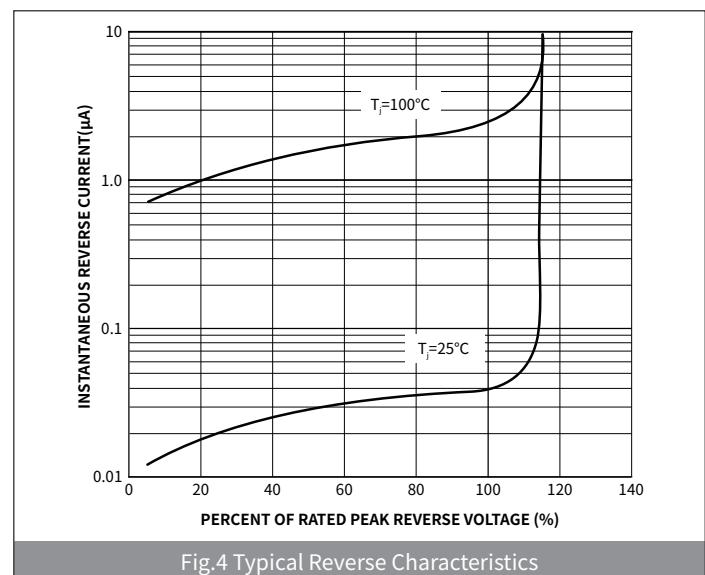
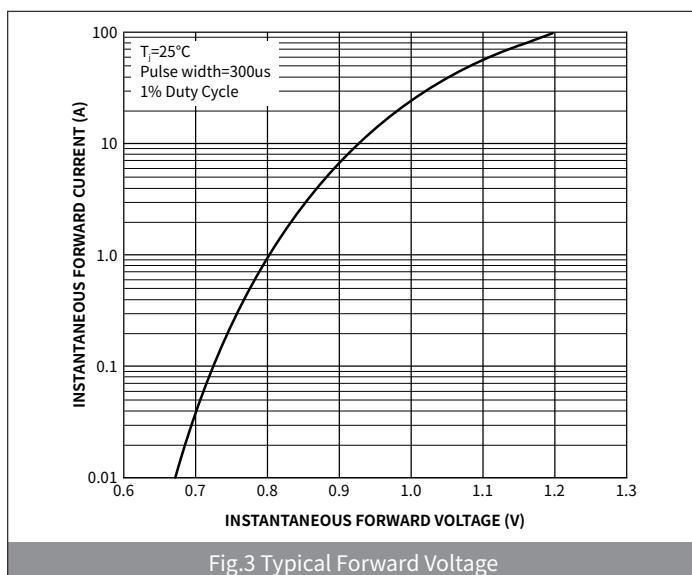
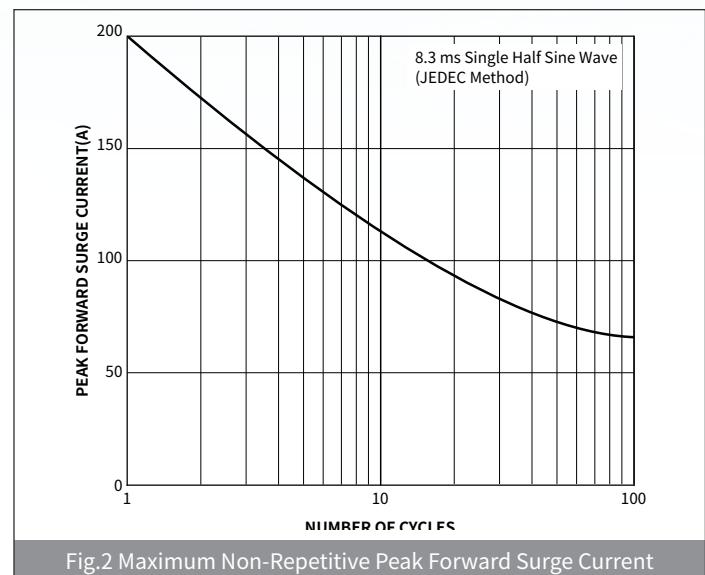
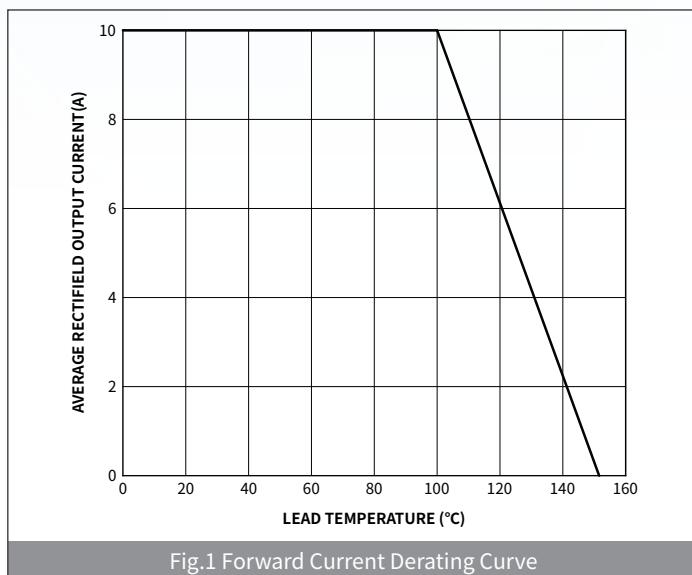


### ● Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Device marking code			GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V <sub>RMS</sub>	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V <sub>DC</sub>	V	50	100	200	400	600	800	1000
Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load,TL (Fig.1)	I <sub>F(AV)</sub>	A					10		
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I <sub>FSM</sub>	A					200		
Rating for fusing (t=8.3ms, Ta=25 °C )	I <sup>2</sup> t	A <sup>2</sup> S					166		
Storage temperature	T <sub>stg</sub>	°C					-55 ~ +150		
Junction temperature	T <sub>j</sub>	°C					-55 ~ +150		
Typical Thermal Resistance	R <sub>θJ-A</sub>	°C /W					25		
	R <sub>θJ-C</sub>	°C /W					2.3		

**• Electrical Characteristics (Ta=25°C Unless otherwise noted)**

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	GBU10005	GBU1001	GBU1002	GBU1004	GBU1006	GBU1008	GBU1010
Maximum instantaneous forward voltage	I <sub>F</sub> =5.0A	V <sub>F</sub>	V							1.1
Maximum DC reverse current at rated DC blocking voltage	V <sub>R</sub> =V <sub>DC</sub> , T <sub>A</sub> =25°C	I <sub>R1</sub>	μA							10
	V <sub>R</sub> =V <sub>DC</sub> , T <sub>A</sub> =100°C	I <sub>R2</sub>								500
Typical junction capacitance	4.0V DC,1MHz	C <sub>J</sub>	pF							250

**• Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)**


### ● Ordering Information

PACKAGE	UNIT WEIGHT(g)	BOX(pcs)	CARTON(pcs)
GBU	3.78	250	2500

### ● Package Outline Dimensions (GBU)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	21.80	22.30	0.858	0.878
B	18.30	18.80	0.720	0.740
C	17.50	18.00	0.689	0.708
D	3.50	4.10	0.138	0.161
E	7.40	7.90	0.291	0.311
F	1.65	2.16	0.065	0.085
G	1.91	2.54	0.075	0.100
H	2.06	2.54	0.081	0.100
I	1.02	1.27	0.040	0.050
J	4.83	5.33	0.190	0.210
K	3.30	3.56	0.130	0.140
L	2.40	2.66	0.094	0.104
M	0.46	0.56	0.018	0.022
N	5.60	6.00	0.220	0.236

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