



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic Part Number	GBU8005 THRU GBU810
▶ Overseas Part Number	GBU8005 THRU GBU810
▶ Equivalent Part Number	GBU8005 THRU GBU810



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

8.0 Ampere

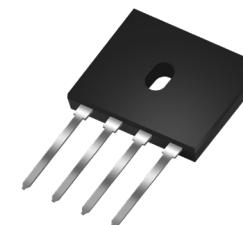
● Applications

General purpose 1 phase Bridgerectifier applications

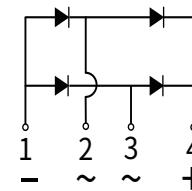
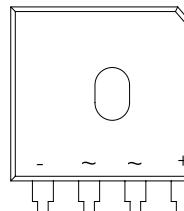
GBU

● 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

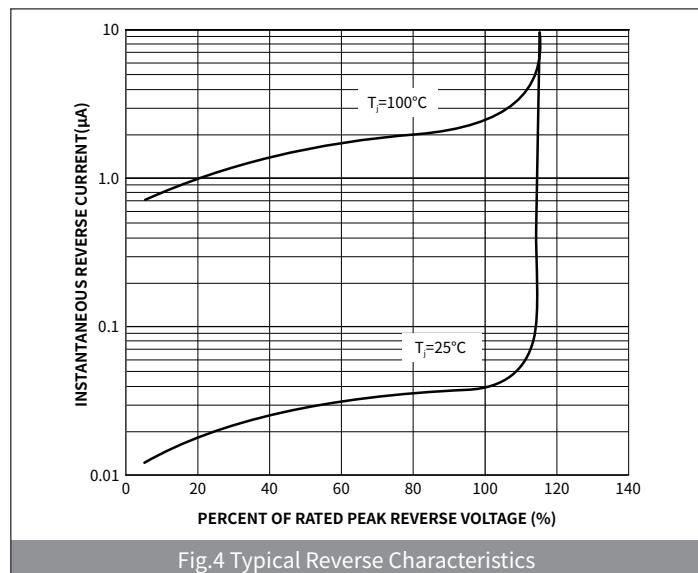
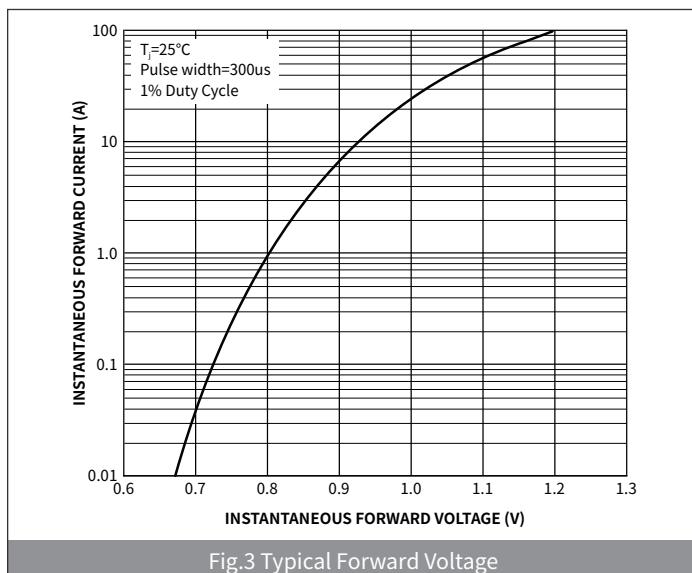
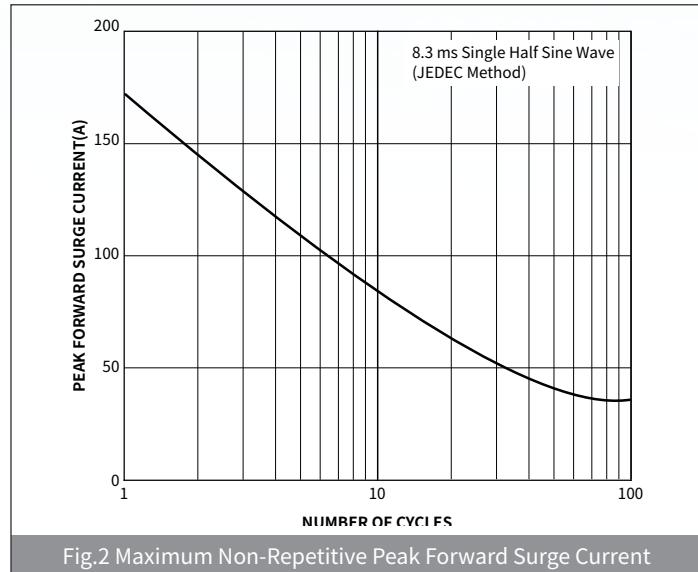
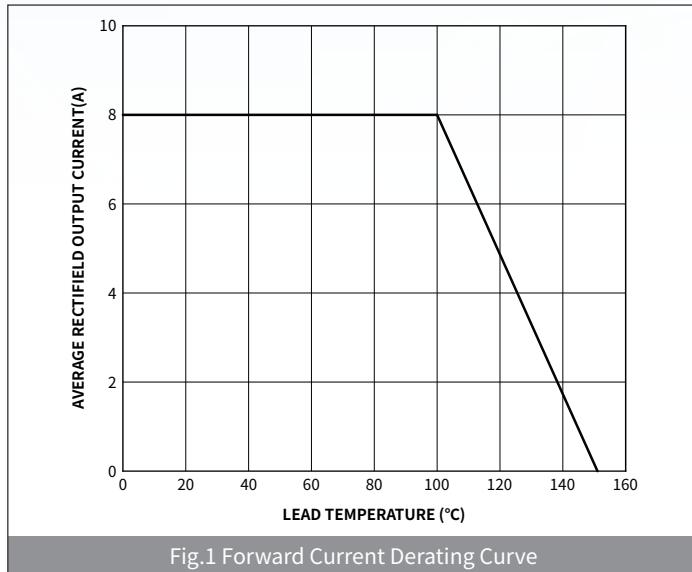


● Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810
Device marking code			GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load,TL (Fig.1)	I _{F(AV)}	A					8.0		
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I _{FSM}	A					175		
Rating for fusing (t=8.3ms, Ta=25 °C)	I ² t	A ² S				127.09			
Storage temperature	T _{stg}	°C				-55 ~ +150			
Junction temperature	T _j	°C				-55 ~ +150			
Typical Thermal Resistance	R _{θJ-A}	°C /W				25			
	R _{θJ-C}	°C /W				2.3			

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

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	GBU8005	GBU801	GBU802	GBU804	GBU806	GBU808	GBU810
Maximum instantaneous forward voltage	I _F =8A	V _F	V							1.1
Maximum DC reverse current at rated DC blocking voltage	V _R =V _{DC} , T _A =25°C	I _{R1}	μA							10
	V _R =V _{DC} , T _A =100°C	I _{R2}								500
Typical junction capacitance	4.0V DC, 1MHz	C _J	pF							250

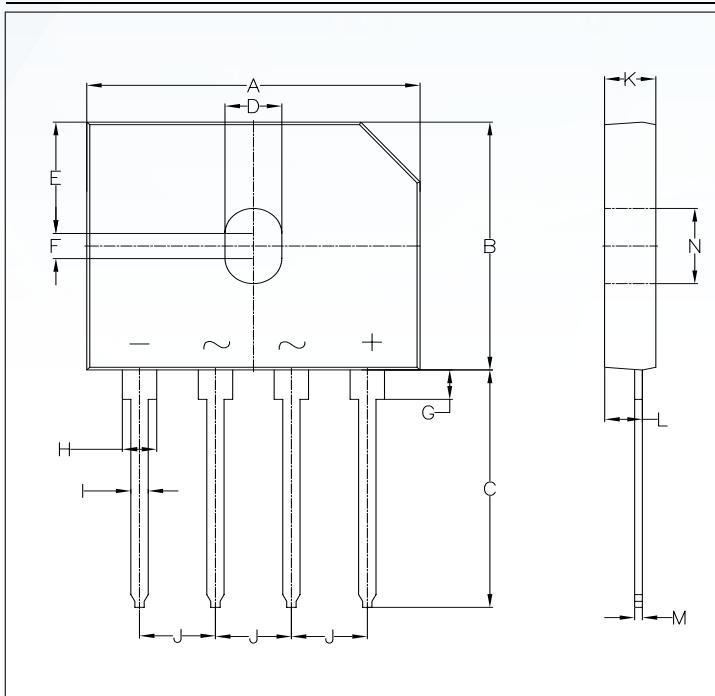
• Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)


GBU8005 THRU GBU810

● 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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