

# EVVOSEMI<sup>®</sup>

THINK CHANGE DO



ESD



TVS



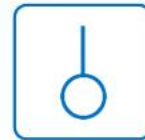
MOS



LDO



Diode



Sensor



DC-DC

## Product Specification

▶ Domestic	Part Number	GBU15005 THRU GBU1510
▶ Overseas	Part Number	GBU15005 THRU GBU1510
▶ Equivalent	Part Number	GBU15005 THRU GBU1510

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  
15 Ampere

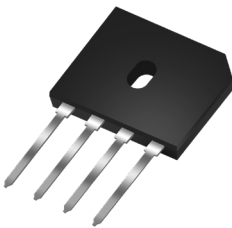
Applications

General purpose 1 phase Bridgerectifier applications

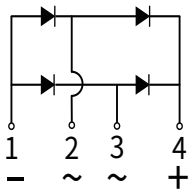
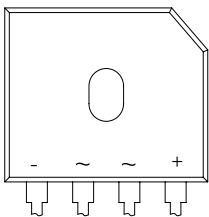
Mechanical Data

- 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

GBU



Function Diagram

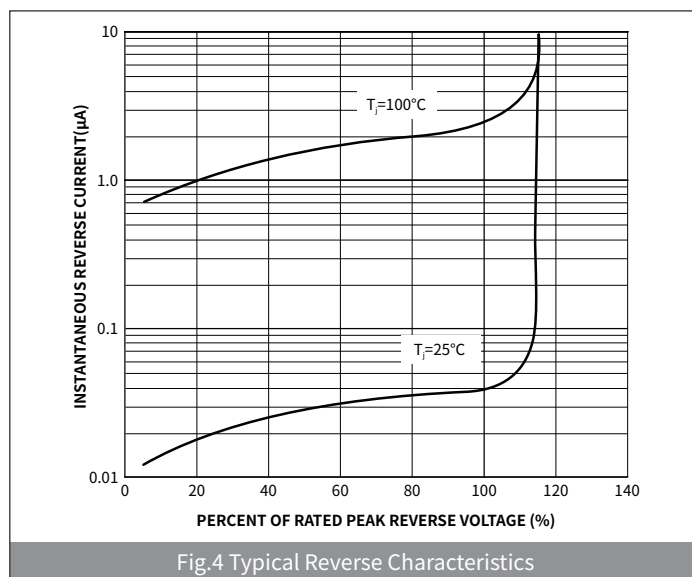
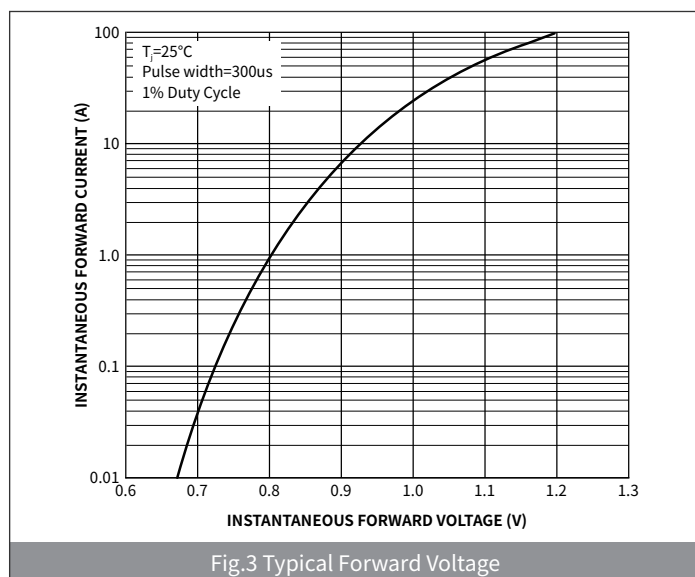
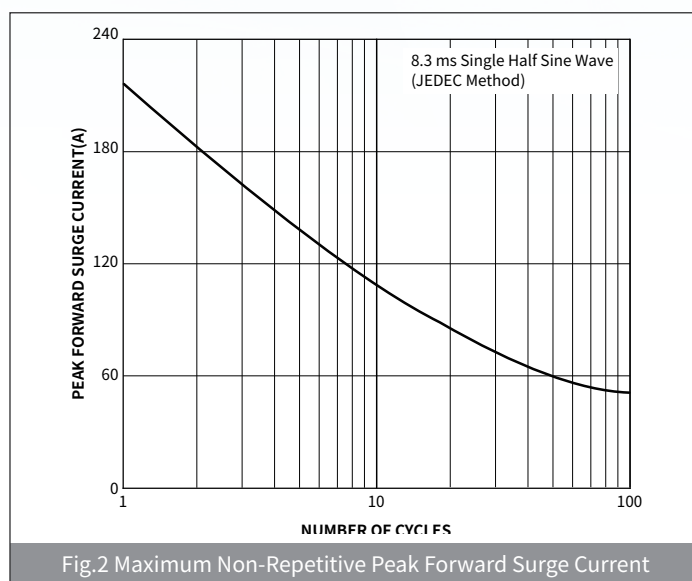
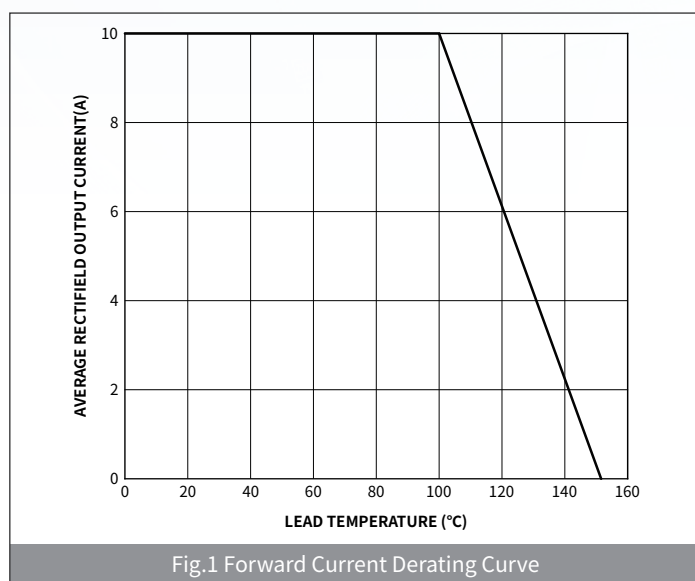


Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510
Device marking code			GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510
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	15						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I <sub>FSM</sub>	A	220						
Rating for fusing (t=8.3ms, Ta=25 °C )	I <sup>2</sup> t	A <sup>2</sup> S	200.86						
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** ( $T_A=25^\circ\text{C}$  Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510
Maximum instantaneous forward voltage	$I_F=7.5\text{A}$	$V_F$	V	1.1						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^\circ\text{C}$	$I_{R1}$	$\mu\text{A}$	10						
	$V_R=V_{DC}, T_A=100^\circ\text{C}$	$I_{R2}$		500						
Typical junction capacitance	4.0V DC, 1MHz	$C_J$	pF	250						

**• Ratings And Characteristics Curves** ( $T_A=25^\circ\text{C}$  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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