















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	GBU6005 THRU GBU610
Overseas Part Number	GBU6005 THRU GBU610
▶ Equivalent Part Number	GBU6005 THRU GBU610





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** 6.0 Ampere

GBU

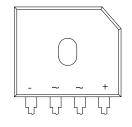
Applications

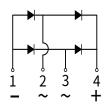
General purpose 1 phase Bridgerectifier applications

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

Function Diagram





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

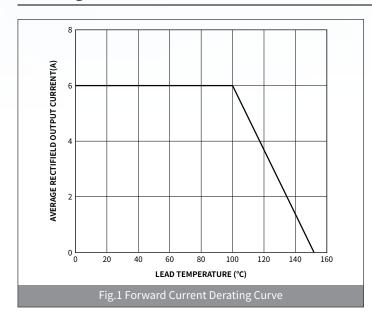
PARAMETER	SYMBOL	UNIT	GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610
Device marking code			GBU6005	GBU601	GBU602	GBU604	GBU606	GBU608	GBU610
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	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)}	А	6.0						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I _{FSM}	А	150						
Rating for fusing (t=8.3ms, Ta=25 °C)	I²t	A ² S	93.37						
Storage temperature	T_{stg}	°C	-55 ~ +150						
Junction temperature	T _j	°C	-55 ~ +150						
Typical Thormal Desistance	R _{θJ-A}	°C /W	25						
Typical Thermal Resistance	R _{θJ-C}	°C /W	2.3						

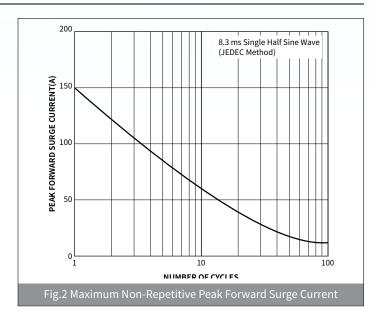


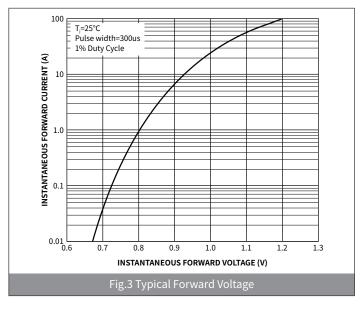
• Electrical Characteristics (Ta=25°C Unless otherwise noted)

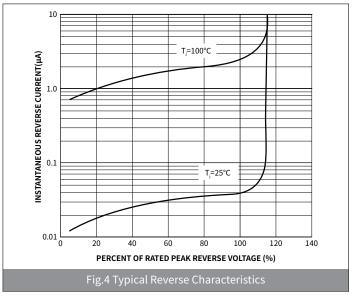
PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	GBU6005 GBU601 GBU602 GBU604 GBU606 GBU608 GBU610			
Maximum instantaneous forward voltage	I _F =3A	V _F	V	1.1			
Maximum DC reverse currentat	$V_R = V_{DC}, T_A = 25$ °C	I _{R1}		10			
rated DC blocking voltage	V _R =V _{DC} , T _A =100°C	I _{R2}	μΑ	500			
Typical junction capacitance	4.0V DC,1MHz	C _J	pF	250			

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







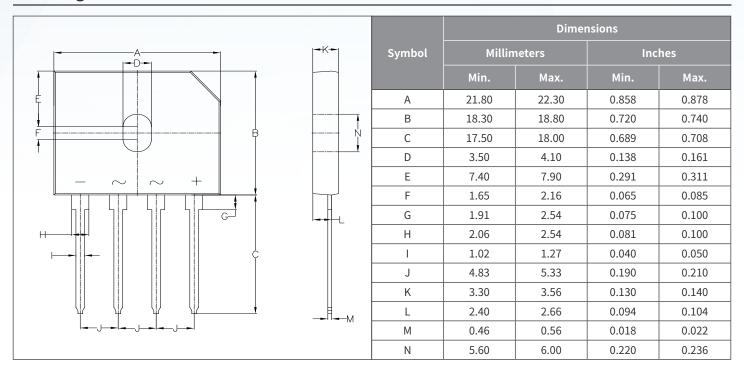




Ordering Information

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

• Package Outline Dimensions (GBU)





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