

GBU6005 THRU GBU610

BRIDGE RECTIFIERS

FEATURES

· UL Recognized File #E469616

- · Glass passivated chip junction
- · Reliable low cost construction utilizing molded plastic technique
- · Ideal for printed circuit board
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

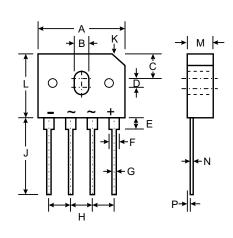
MECHANICAL DATA

Case: Molded plastic, GBU

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.15ounce, 4.0gram $\mathbf{G}\mathbf{B}\mathbf{U}$



Dim	Min	Max			
Α	21.8	22.3			
В	3.5	4.1			
С	7.4	7.9			
D	1.65	2.16			
E	2.25	2.75			
F	2.05	2.3			
G	1.02	1.27			
Н	4.83	5.33			
J	17.5	18.0			
K	4.2 X 45°				
L	18.3	18.8			
М	3.30	3.56			
N	0.46	0.56			
Р	0.76	1.0			

Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

Ratings at 25 $\,$ ambient temperature unless otherwise specified. Single phase, half wave, $60H_Z$, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBU 6005	GBU 601	GBU 602	GBU 604	GBU 606	GBU 608	GBU 610	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		50	100	200	400	600	800	1000	V
RMS Reverse Voltage		35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@Tc=90℃		6.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	120						А	
Forward Voltage per element @IF=3A @IF=6A	Vғм	1.0 1.1						V	
Peak Reverse Current @TA=25 °C At Rated DC Blocking Voltage @TA=125 °C	lR	5.0 500						uA	
I ² t Rating for fusing (t <8.3ms)	I ² t	59.7						A ² s	
Typical Junction Capacitance per leg (Note 2)	С	65			pF				
Typical Thermal Resistance per leg (Note 3)	Reja	31							• ℃/W
Typical Thermal Nesistance per leg (Note 9)	Rejl	7.6							
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150						$^{\circ}$ C	

Note:1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.



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Characteristic Curves (T_A=25 °C unless otherwise noted)

