

GBU804 thru GBU810

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 400 to 1000 Volts FORWARD CURRENT - 8.0 Amperes

FEATURES

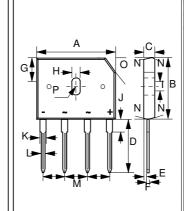
- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E95060

MECHANICAL DATA

Polarity : Symbols molded on bodyWeight : 0.15 ounces, 4.0 grams

Mounting position : Any

GBU



GBU						
DIM.	MIN.	MAX.				
Α	21.80	22.30				
В	18.30	18.80				
С	3.30	3.56				
D	17.50	18.00				
Е	0.76	1.00				
F	0.46	0.56				
G	7.40	7.90				
Н	3.50	4.10				
I	1.65	2.16				
J	2.25	2.75				
K	1.95	2.35				
L	1.02	1.27				
М	4.83	5.33				
N	7.0° TYPICAL					
0	3.2 x 45°					
Р	1.90 RADIUS					
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

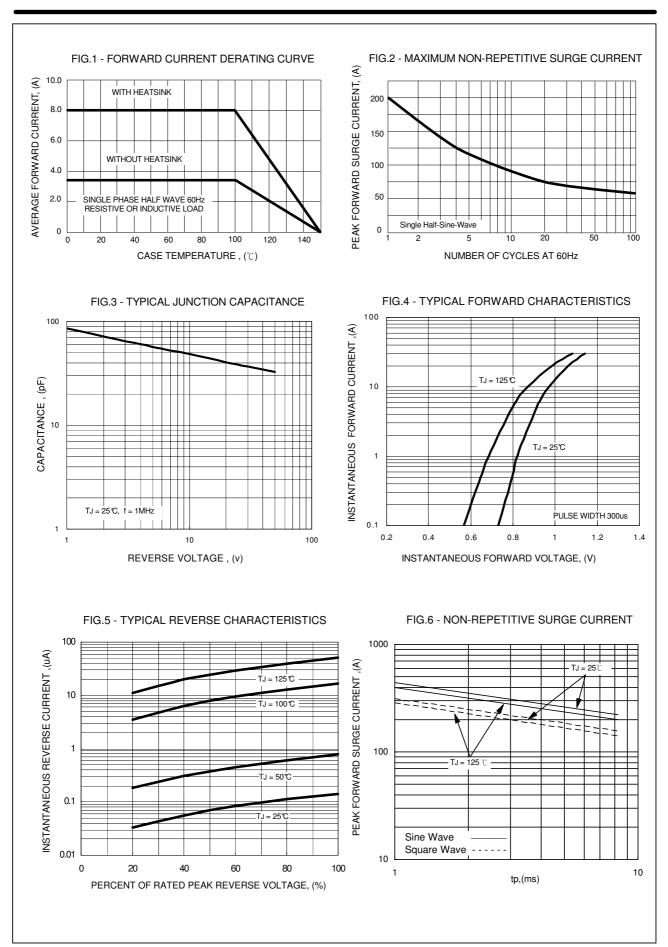
CHARACTERISTICS	SYMBOL	GBU 804	GBU 806	GBU 808	GBU 810	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	400	600	800	1000	V
Maximum RMS Voltage	VRMS	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @Tc=100°C (without heatsink)		8.0 3.2				Α
Peak Forward Surge Current @TJ =25°C 8.3ms single half sine-wave @TJ =125°C	IFSM	220 200				Α
Peak Forward Surge Current @TJ =25°C 1.0ms single half sine-wave @TJ =125°C	IFSM	440 400				Α
Maximum forward Voltage at 4.0A DC Maximum forward Voltage at 8.0A DC	VF	1.0 1.2				V
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ =125°C	lr	5.0 500				uA
I^2 t Rating for fusing (3ms $\leq t \leq 8.3$ m)	l² t	166				A ² S
Typical Junction Capacitance per element (Note 1)	Cı	60				pF
Typical Thermal Resistance (Note 2)	Reja Rejl Rejc	8.0 3.0 2.2			°C/W	
Typical Thermal Resistance (without heatsink)	Rejc	5.6			°C/W	
Operating Temperature Range	TJ -55 to +150			℃		
Storage Temperature Range	Tstg	-55 to +150				°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

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