

GBU806-GBU810(LS)

GLASS PASSIVATED BRIDGE RECTIFIER

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 8.0 Amperes

GBU

FEATURES

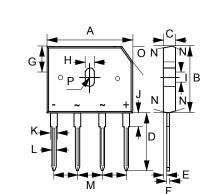
- Rating to 1000V PRV
- · Ideal for printed circuit board
- Reliable construction utilizing molded plastic technique
- UL recognition file # E95060
- The Plastic material, UL flammability classification 94V-0

MECHANICAL DATA

Polarity: As marked on Body

• Weight: 0.15 ounces,4.0 grams, Approximate

• Mounting position: Any



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	0.80 1.00			
F	0.46 0.56			
G	7.40	7.90		
Н	3.50	4.10		
ı	1.65	2.16		
J	2.25 2.75			
K	1.95 2.35			
L	1.02 1.27			
M	4.83	5.33		
N	7.0° TYPICAL			
0	(3.2) x 45°			
Р	1.90 PADIUS			
All dimension in				
millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER			GBU806	GBU808	GBU810	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	600	800	1000	V
Maximum DC blocking voltage		V_{DC}	600	800	1000	V
Average reclined output current per device	With heatsink,@T _C =100°C Withoutheatsink,@T _C =100°C	I _(AV)	8.0 3.2			А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load @ T _A =25°C @ T _A =125°C		I _{FSM}		220 200		Α
Peak forward surge current 1.0ms single half @ T _A =25°C sine-wave superimposed on rated load @ T _A =125°C		I _{FSM}	440 400		А	
I ² t rating for fusing (t = 8.3ms)		l ² t		200		A ² S
Operating and storage temperature range		T _J ,T _{STG}		-55 to +150		°C

STATIC ELECTRICAL CHARACTERISTICS

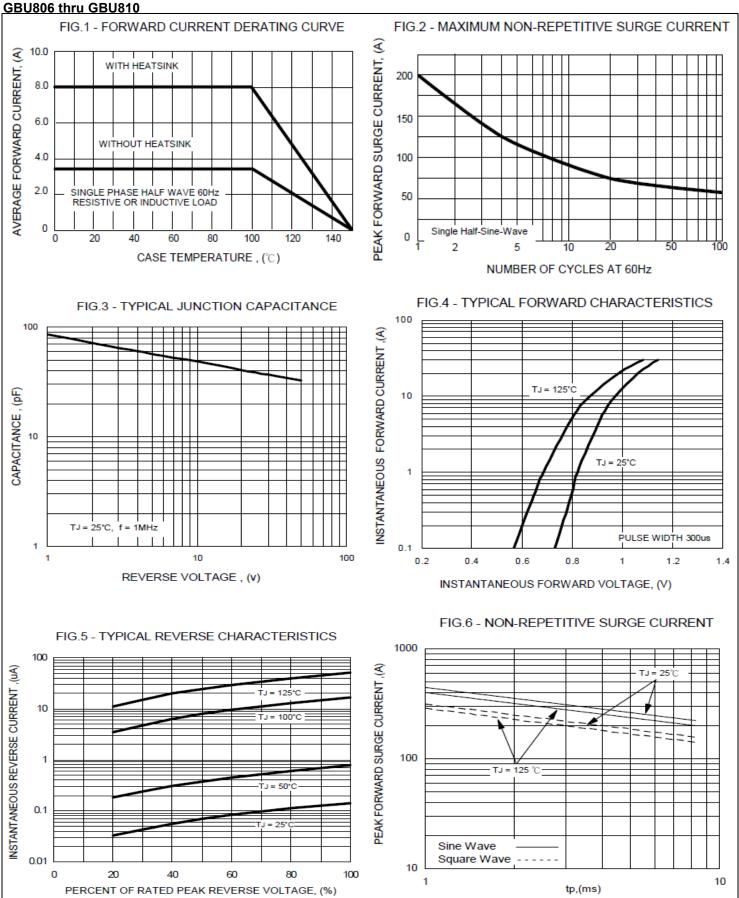
PARAMETER	TES	T CONDITION	SYMBOL	TYP. MAX	UNIT
Forward voltage (Note1)	I _F = 4A I _F = 8A	T _A = 25°C	V _F	1.0 1.2	V
Leakage current	V _R at rated	$T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$ (Note1)	I _R	5 500	uA
Typical junction capacitance (Note	2)	_	CJ	60	pF

THERMAL CHARACTERISTICS

PARAMETER		TYP.	UNIT
Typical Thermal Resistance (with Heatsink) (Note3)	$RthJ_A \ RthJ_L \ RthJ_C$	8.0 3.0 2.2	°C/W
Typical thermal resistance (without heatsink)	RthJ _c	5.6	°C/W
Note:	REV.11, Sep	-2021,KBDJ03	

- (1) Perform static test after the temperature of oven is steady 20 minutes.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (3) Device mounted on 100 mm * 100 mm *1.6mm Cu Plate heatsink.

RATING AND CHARACTERISTIC CURVES

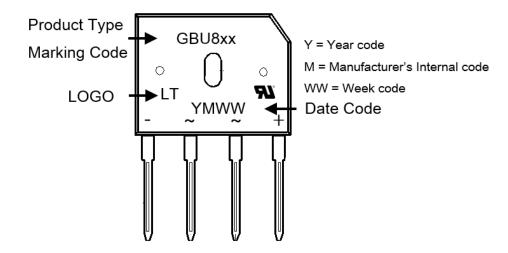




Ordering Information:

Part Number	Case	Packaging
GBU806_HF	GBU	20/Tube
GBU808_HF	GBU	20/Tube
GBU810_HF	GBU	20/Tube

Marking Information:





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