

GBU1004 thru GBU1010

GLASS PASSIVATED BRIDGE RECTIFIERS

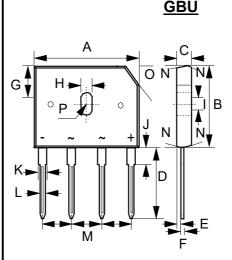
REVERSE VOLTAGE – 400 to 1000 Volts FORWARD CURRENT - 10 Amperes

FEATURES

- Rating to 1000V PRV.
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- UL recognition file # E95060

MECHANICAL DATA

- Case: GBU
- · Case Material: Plastic material, UL flammability classification 94V-0
- · Polarity Indicator: Symbol molded on body
- Weight: 3.72 grams (Approximate)



GBU				
DIM	MIN	MAX		
Α	21.80	22.30		
В	18.30	18.80		
С	3.30	3.56		
D	17.50	18.00		
E	0.76	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

, 1200201212111100							
PARAMETER		SYMBOL	GBU1004	GBU1006	GBU1008	GBU1010	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	400	600	800 1000		V
Maximum DC blocking voltage		V _{DC}	400	600	800	1000	V
Average rectified output current per device with he without current per device with he will be a supplicated by the without current per device with he will be a supplicated by the without current per device with he will be a supplicated by the will be a s	current per device with heatsink (Note 2) 10 without heatsink @ Tc=100°C 1 _(AV) 3.2			Α			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	I _{FSM}		240 220			Α
Peak forward surge current 1ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	I _{FSM}		48 44			Α
I^2 t rating for fusing (t = 8.3 ms)	@ T _A =25°C	I²t		23	39		A ² S
Mounting Torque (recommended torque: 0.5 N.r	n)	TOR	0.8			N.m	
Operating and storage temperature range		T _J ,T _{STG}		-55 to	+150		°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST	CONDITION	SYMBOL	MAX	UNIT
Famous and continue	I _F = 5.0A	T _J = 25°C		1.0	.,
Forward voltage	I _F = 10A	T _J = 25°C	VF	1.2	
Leakage current	V _R at rated	T _J = 25°C T _J = 125°C	I _R	5 500	uA
Typical junction capacitance (Note 1)		CJ	60	pF

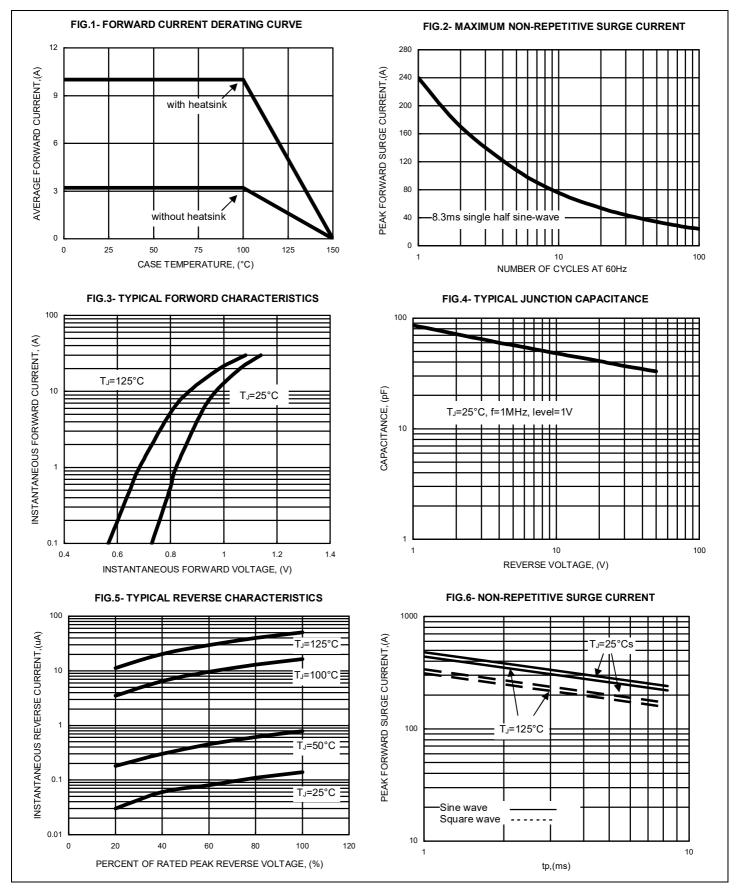
THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance	RthJ _C (Note 2) RthJ _C (without heatsink) RthJ _A (without heatsink)	2.0 5.6 22	°C/W
Note:		REV.10, Mar-2019,	KBDJ04

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (2) Thermal resistance junction to case and ambient in accordance with JESD-51. Device mounted on 150mm * 150mm * 1.6mm Cu plate heatsink.

RATING AND CHARACTERISTIC CURVES GBU1004 thru GBU1010







Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.