

GBP306 thru GBP310

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 3.0 Ampere

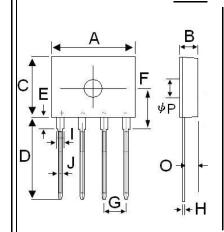
GBP

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 94-0
- UL Recognition File#E95060

MECHANICAL DATA

- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Polarity indicator: As marked on body
- Weight: 1.33 grams



GBP						
Dim.	Min.	Max.				
Α	14.2	14.7				
В	2.9	3.3				
С	10.1	10.7				
D	13.8	14.4				
Е	1.8	2.2				
F	6.65	7.25				
G	3.71	3.91				
Н	0.4	0.6				
I	1.20	1.40				
J	0.64	0.84				
0	1.8	2.4				
Р	3 .1 φ	3.3ϕ				
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

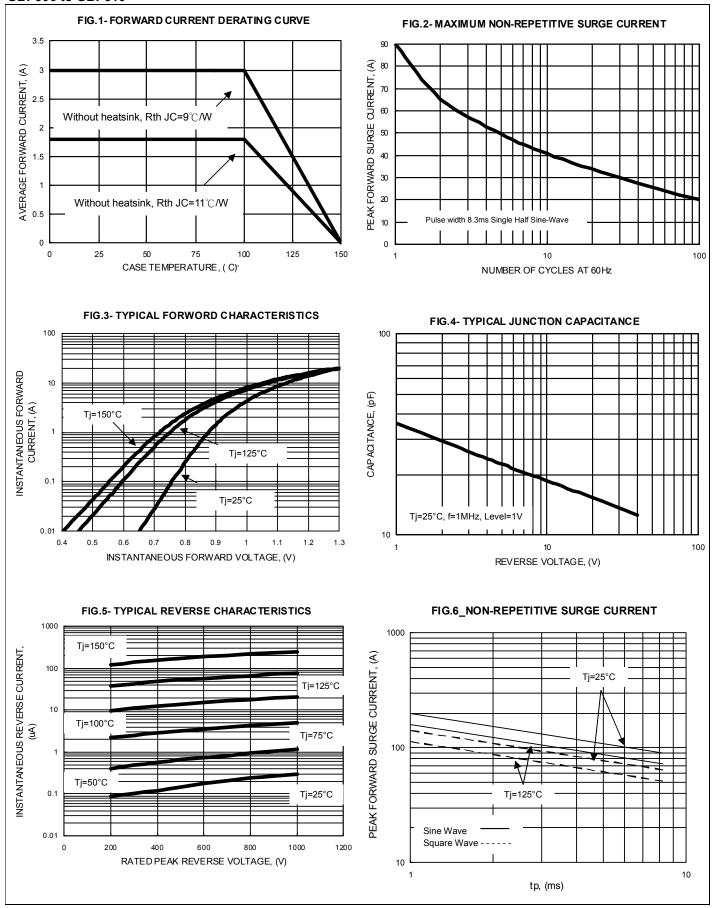
PARAMETER		SYMBOL	GBP306	GBP308	GBP310	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	600	800	1000	V
Maximum Average Forward Rectified Current@Tc = 100 °C	(with Heat-sink) (without Heat-sink)	I _(AV)	3.0 1.8			А
Peak Forward Surge Current 8.3ms single half sine-wave	@Tj = 25 °C @Tj = 125 °C	I _{FSM}	90 72		А	
Peak Forward Surge Current 1.0ms single half sine-wave	@Tj = 25 ℃ @Tj = 125 ℃	I _{FSM}	200 160		А	
Maximum Forward Voltage at 1.5A DC		V _F		1.05		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _J = 25°C @ T _J = 125°C	I _R	5 500			uA
I^2 t Rating for fusing (3ms \leq t < 8.3ms)		I ² t	35			A ² S
Typical Junction Capacitance (Note 1)		CJ	25			pF
Typical Thermal Resistance (Note 2)		R⊕ _{JC} R⊕ _{JA} R⊕ _{JL}	9 20 9		°C/W	
Operating and Storage Temperature R	ange	T _J , T _{STG}		-55 to +150		°C

Note:

REV. 4, Nov-2012, KBDG08

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- (2) Device mounted on 30mm x 30mm x 1mm Cu Plate Heatsink.







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.