



GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – FORWARD CURRENT -

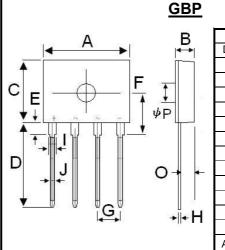
800 Volts 8.0 Amperes

FEATURES

- Rating to 800V PRV
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- UL recognized file # E95060

MECHANICAL DATA

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



GBP				
Dim.	Min. Max.			
Α	14.2	14.7		
В	2.90	3.30		
С	10.1	10.7		
D	13.8	14.4		
Е	1.80	2.20		
F	6.65	7.25		
G	3.71	3.91		
Н	0.40	0.60		
ı	1.20	1.40		
J	0.64	0.84		
0	1.80	2.40		
Р	3.1ψ	3.3ψ		
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	800	V
Maximum average forward rectified current @ T _A =25°C	with heat-sink without heat-sink	I _(AV)	8.0 1.5	А
Peak forward surge current single half sine-wave superimposed on rated load. @ T _J =25 C	@8.3ms @1.0ms	I _{FSM}	165 330	А
I ² t rating for fusing (t < 8.3ms)		I² t	110	A ² S
Operation and storage temperature range		T _J ,T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	MAX.	UNIT
Forward voltage	IF=4.0 A	T _J =25°C	V _F	1.05	V
Leakage current	VR=800 V	T _J =25°C T _J =125°C	I _R	1.0 100	uA
Typical junction capacitance (Note1)		CJ	45	pF	

THERMAL CHARACTERISTICS

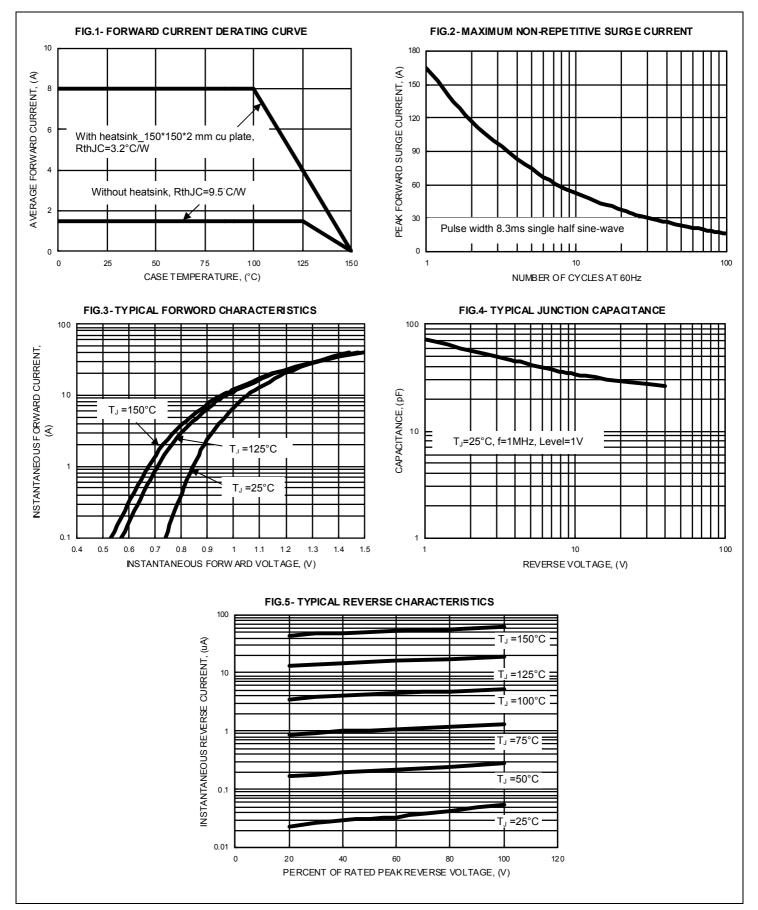
THERMAL CHARACTERISTIC	SYMBOL	TYP.		UNIT
	RthJ _C	3.2		°C/W
Typical thermal resistance (Note2)	RthJ∟	4.8		
	$RthJ_A$	8		
	RthJ _c	9.5		
Typical thermal resistance (without heatsink)	RthJ∟	24		°C/W
	$RthJ_\mathtt{A}$	28		
Note:			REV. 3, DEC-2014, KBDG13	

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

Thermal resistance test performed in accordance with JESD-51. Device mounted on 150 mm x 150 mm x 2 mm cu plate heatsink.

RATING AND CHARACTERISTIC CURVES GBP808N







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