



2A STANDARD RECOVERY BRIDGE RECTIFIER

Product Summary

V _{RRM} (V)	I _F (A)	V _F Max (V) @ I _F = 1A	I _R Max (μA)
600, 800, 1000	2	1.05	5

Mechanical Data

- Case: GBP
- Case Material: plastic material, UL flammability classification 94V-0.(No Br. Sb, CI)
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 @3
- Polarity indicator: symbol molded on body.
- Weight: 1.33 grams (Approximate)

Features

- Glass Passivated Die Construction
- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable construction utilizing molded plastic
- UL recognized file # E94661
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/





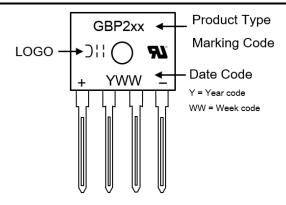
Ordering Information (Note 4)

Part Number	Qualification	Case	Packaging
GBP206	Commercial	GBP	35/Tube
GBP208	Commercial	GBP	35/Tube
GBP210	Commercial	GBP	35/Tube

Notes:

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and
- 4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/

Marking Information





Maximum Ratings (@ T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	GBP206	GBP208	GBP210	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	1000	V
Maximum DC blocking voltage	V_{DC}	600	800	1000	V
Maximum average rectified With heatsink $T_C = +115^{\circ}C$ output current Without heatsink $T_A = +25^{\circ}C$	I _{F(AV)}		2.0 1.2	•	Α
Peak forward surge current 8.3ms single half sine wave $T_J = +25^{\circ}C$ superimposed on rated load. $T_J = +125^{\circ}C$	I _{FSM}		75 65		Α
Peak forward surge current 1.0ms single half sine wave $T_J = +25^{\circ}C$ superimposed on rated load. $T_J = +125^{\circ}C$	I _{FSM}		150 130		Α
I ² t rating for fusing (t = 8.3ms)	l ² t		23		A ² S
Operating temperature range	TJ		-55 to + 150		°C
Storage temperature range	T _{STG}		-55 to + 150		°C

Electrical Characteristics

Characteristic	Test C	onditions	Symbol	Max	Unit
Forward voltage	I _F = 1A	$T_J = +25^{\circ}C$	V _F	1.05	V
Leakage current	V _R at Rated	$T_J = +25^{\circ}C$ $T_J = +125^{\circ}C$	I _R	5 500	μA
Typical junction capacitance (Note 5)			CJ	25	₽F

Thermal Characteristics

Characteristic	Symbol	Тур.	Unit
Typical thermal resistance (Note 6)	RthJc	3	°C/W

Notes:

^{5.} Measured at $1.0 MH_Z$ and applied reverse voltage of 4.0 V DC. 6. Thermal resistance junction to case. Device mounted on $50 mm \times 50 mm \times 1.6 mm$ Cu plate heatsink.



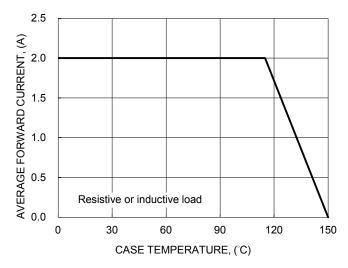


Figure 1. Forward Current Derating Curve

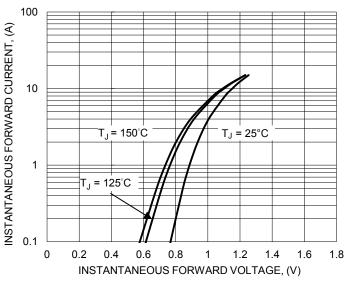


Figure 3. Typical Forward Characteristics

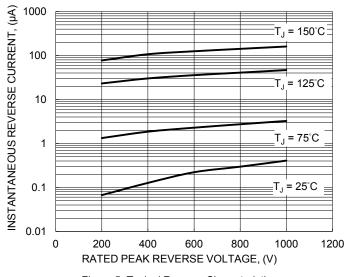


Figure 5. Typical Reverse Characteristics

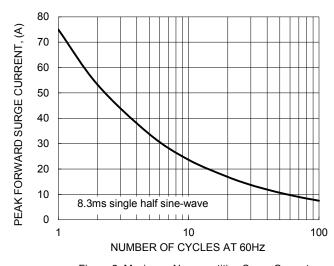


Figure 2. Maximum Non-repetitive Surge Current

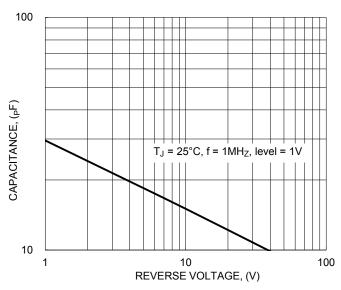


Figure 4. Typcial Junction Capacitance

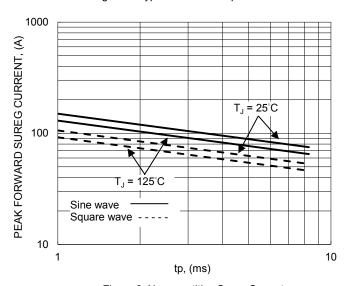
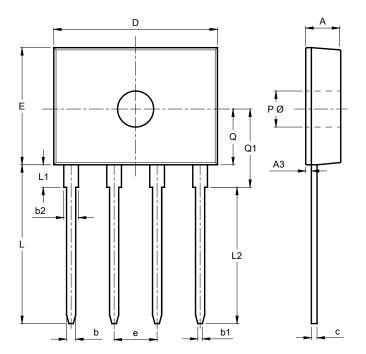


Figure 6. Non-repetitive Surge Current



Package Outline Dimensions

 $Please\ see\ http://www.diodes.com/package-outlines.html\ for\ the\ latest\ version.$



GBP				
Dim	Min	Max	TYP	
Α	2.90	3.30	3.10	
A3	0.30	0.70	0.50	
b	0.76	0.86	0.81	
b1	0.35	0.45	0.40	
b2	1.20	1.40	1.30	
С	0.40	0.60	0.50	
D	14.20	14.70	14.50	
Е	10.10	10.70	10.40	
е	3.71	3.91	3.81	
L	13.80	14.40	14.10	
L1	1.80	2.20	2.00	
L2	12.10 REF			
PØ	3.20 REF			
Q	4.65	5.25	4.95	
Q1	6.65	7.25	6.95	
All Dimensions in mm				



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