



2A STANDARD RECOVERY BRIDGE RECTIFIER

Product Summary

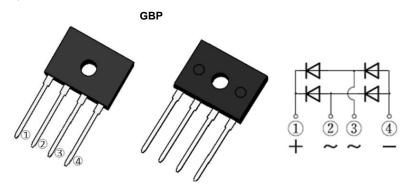
VRRM (V)	IF (A)	V _F Max (V) @ I _F = 1A	I _R Max (μA)
600, 800, 1000	2	1.05	5

Mechanical Data

- Package: GBP
- Package Material: Plastic Material, UL Flammability Classification 94V-0 (No Br. Sb, Cl).
- 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 Low-Cost Construction Utilizing Molded Plastic
- UL Recognized File # E95060
- 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-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/



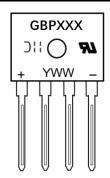
Ordering Information (Note 4)

Orderable Part Number	Dookses	Packing		
Orderable Part Number Pac	Package	Qty.	Carrier	
GBP206	GBP	35	Tube	
GBP208	GBP	35	Tube	
GBP210	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 Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

Marking Information



GBPXXX = Product Type Marking Code

Old = Manufacturer's Code Marking

YWW = Date Code Marking

Y = Last Digit of Year (ex: 5 = 2025)

WW = Week Code (01 to 53)



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

Characteristic		Symbol	GBP206	GBP208	GBP210	Unit
Maximum Repetitive Peak Reverse Voltage		VRRM	600	800	1000	V
Maximum DC Blocking Voltage		VDC	600	800	1000	V
Maximum Average Rectified With Heatsink Output Current Without Heatsink	$T_{C} = +115^{\circ}C$ $T_{A} = +25^{\circ}C$	I _{F(AV)}	2.0 1.2		А	
Peak Forward Surge Current 8.3ms Single Half Sine $T_J = +25^{\circ}C$ Wave Superimposed on Rated Load $T_J = +125^{\circ}C$		IFSM	75 65		Α	
Peak Forward Surge Current 1.0ms Single Half Sine $T_J = +25^{\circ}C$ Wave Superimposed on Rated Load $T_J = +125^{\circ}C$		IFSM	150 130		А	
I ² t Rating for Fusing (t = 8.3ms)		I ² t	23		A ² s	
Operating Temperature Range		TJ	-55 to +150		°C	
Storage Temperature Range		Tstg	-55 to +150		°C	

Electrical Characteristics

Characteristic	Test C	onditions	Symbol	Max	Unit
Forward Voltage	$I_F = 1A$	$T_J = +25^{\circ}C$	VF	1.05	V
Leakage Current	V _R at Rated	T _J = +25°C T _J = +125°C	I _R	5 500	μA
Typical Junction Capacitance (Note 5)			Сл	25	pF

Thermal Characteristics

Characteristic	Symbol	Тур	Unit
Typical Thermal Resistance (Note 6)	Rejc	3	°C/W

Notes:

^{5.} Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

^{6.} Thermal resistance junction to case. Device mounted on 50mm x 50mm x 1.6mm Cu plate heatsink.



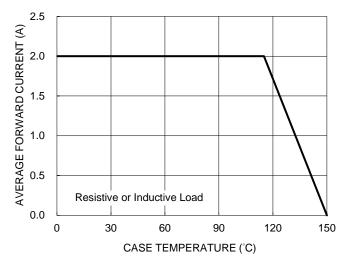


Figure 1. Forward Current Derating Curve

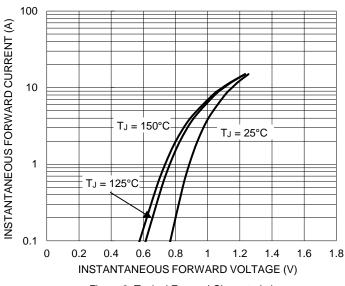


Figure 3. Typical Forward Characteristics

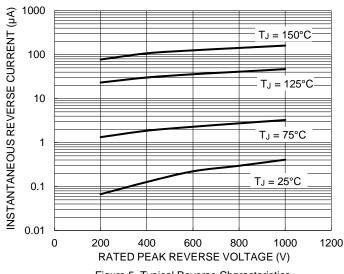


Figure 5. Typical Reverse Characteristics

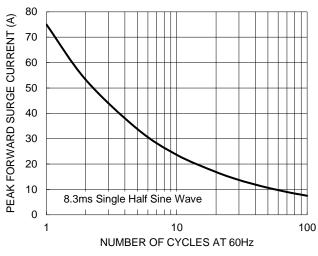


Figure 2. Maximum Non-Repetitive Surge Current

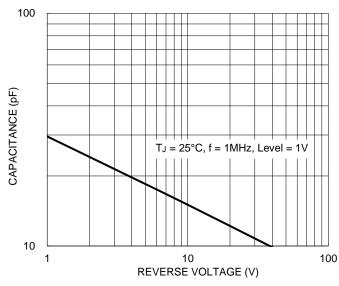


Figure 4. Typcial Junction Capacitance

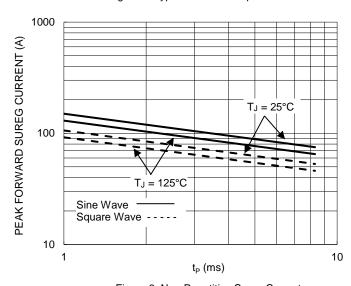


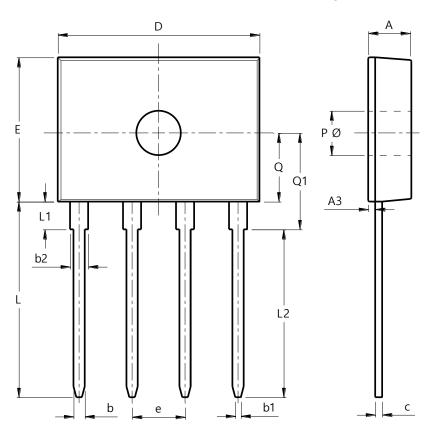
Figure 6. Non-Repetitive Surge Current



Package Outline Dimensions

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

GBP



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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