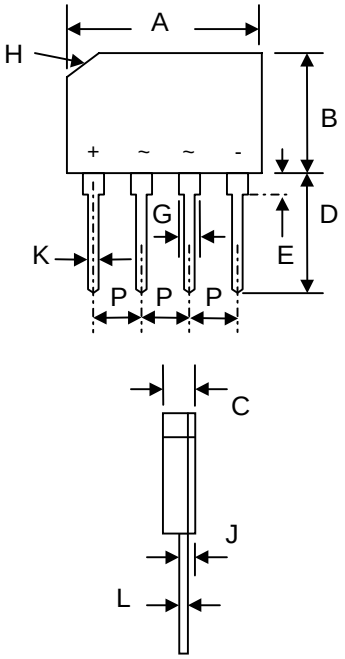
GBP200 – GBP210

2.0A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705



GBP		
Dim	**Min**	**Max**
A	14.25	14.75
B	10.10	10.50
C	3.35	3.65
D	14.15	14.65
E	2.10	2.50
G	1.15	1.45
H	2.80 x 45°	
J	1.30	1.60
K	0.66	0.86
L	0.35	0.65
P	3.56	4.06
All Dimensions in mm		

Mechanical Data

- Case: GBP, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	GBP 200	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @T_A = 50°C	I_O	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60							A
Forward Voltage per leg @I_F = 1.0A	V_{FM}	1.0							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 125°C	I_R	5.0 500							μA
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$	32							°C/W
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JL}$	13							°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150							°C

Note: 1. Mounted on 75 x 75 x 3.0mm Al. plate.
2. Mounted on PCB at 9.5mm lead length with 12mm² copper pad.

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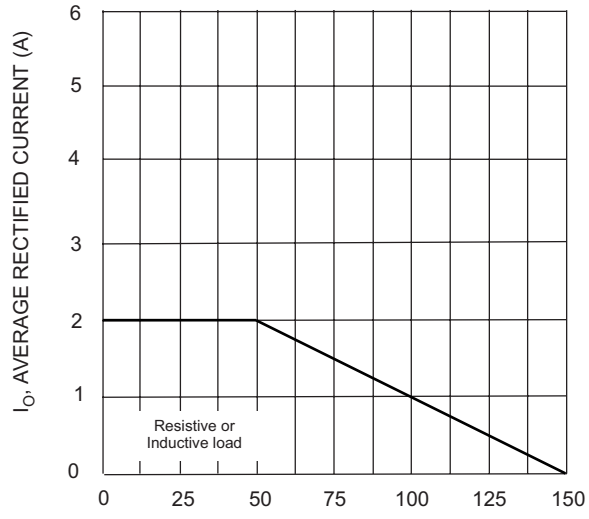


Fig. 1 Forward Current Derating Curve

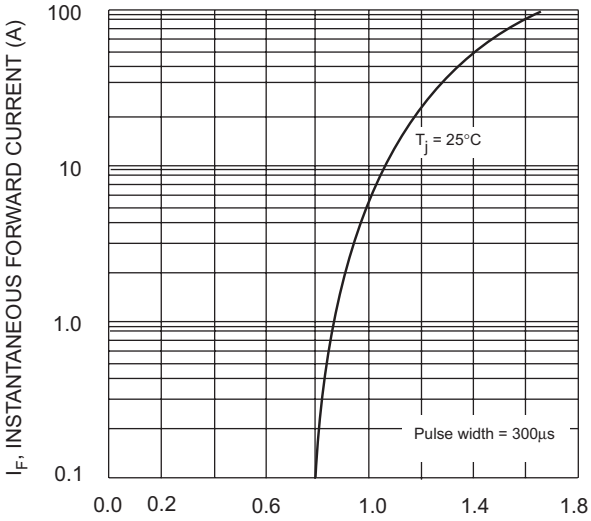


Fig. 2 Typical Fwd Characteristics, per element

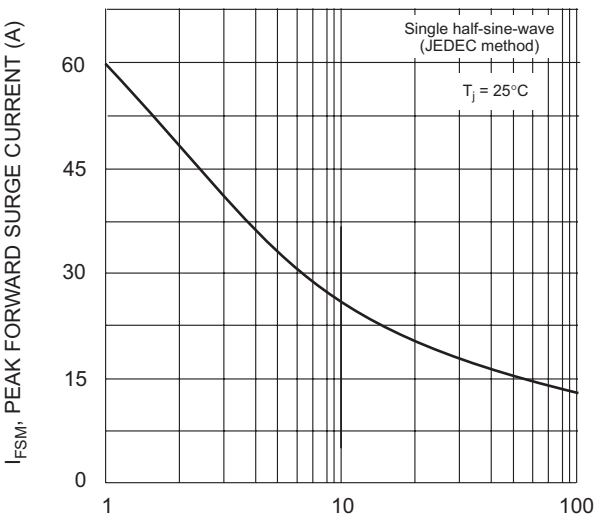


Fig. 3 Maximum Non-Repetitive Surge Current

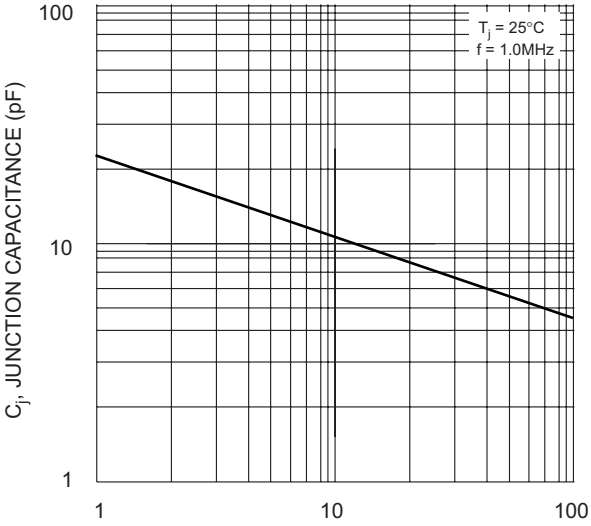
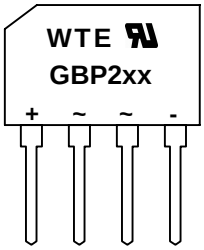


Fig. 4 Typical Junction Capacitance

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MARKING INFORMATION



WTE = Manufacturer's Logo
GBP2xx = Device Number
xx = 00, 01, 02, 04, 06, 08 or 10
Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
200 x 160 x 42	600	425 x 215 x 280	7,200	17.0

Note: 1. Paper box, white or brown color.

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
GBP200	SIL Bridge	600 Units/Box
GBP201	SIL Bridge	600 Units/Box
GBP202	SIL Bridge	600 Units/Box
GBP204	SIL Bridge	600 Units/Box
GBP206	SIL Bridge	600 Units/Box
GBP208	SIL Bridge	600 Units/Box
GBP210	SIL Bridge	600 Units/Box

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, GBP200-LF.**

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