

Single Phase Glass Passivated Bridge Rectifiers	Reverse Voltage: 50V to 1000V Forward Current: 2 Amp
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Features

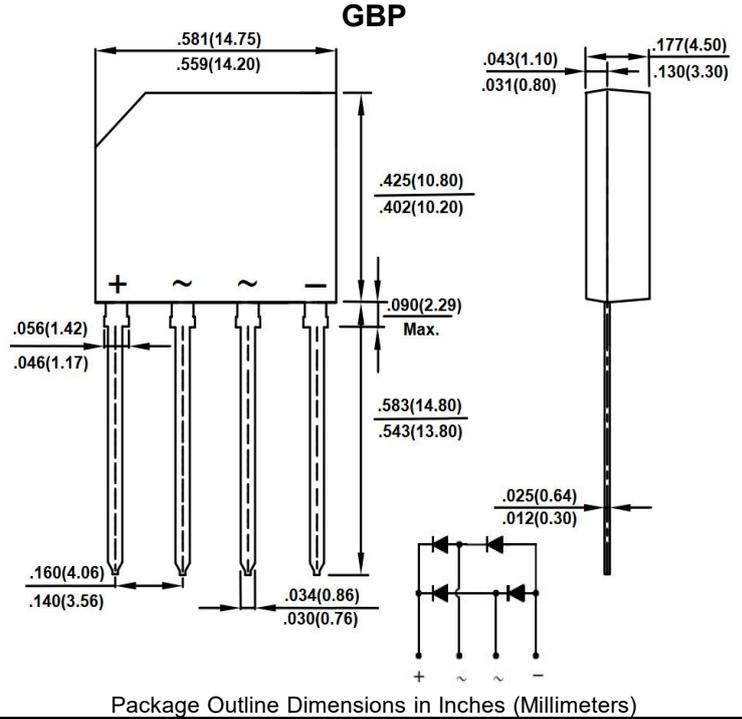
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- Solder dip 260°C max. 10 s, per JESD 22-B106

Mechanical Data

- **Package:** GBP
Molding compound meets UL 94 V-0 flammability rating
- **Terminals:** Matte tin plated leads, solderable per MIL-STD-750, Method 2026
- **Polarity:** Symbol marking on body

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.


Maximum Ratings and Electrical Characteristics (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions	SYM.	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	Unit
Device marking code		GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current (FIG.1)	I _{O(AV)}	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed On Rated Load	I _{FSM}	60							A
Operating junction range	T _j	-55 to+150							°C
Storage temperature range	T _{STG}	-55 to+150							°C

Thermal Characteristics (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions	SYM.	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	Unit
Maximum Thermal Resistance per Leg, Junction To Lead (Note 1)	R _{θJL}	25							°C/W
Maximum Thermal Resistance per Leg, Junction To Ambient (Note 1)	R _{θJA}	55							°C/W
Maximum Thermal Resistance per Leg, Junction To Case (Note 1)	R _{θJC}	13							°C/W

Electrical Characteristics (Ta=25°C Unless otherwise specified)

Parameter&Test Conditions	SYM.	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	Unit
Maximum Instantaneous Forward Voltage per diode	IF= 1A	1.0							V
	IF= 2A	1.1							
Maximum DC reverse current at rated DC blocking voltage per diode	TA = 25°C	5							µA
	TA = 125°C	100							

Notes:
1. Units mounted on PCB (10mm x 10mm Cu pad test board).

Rating and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED

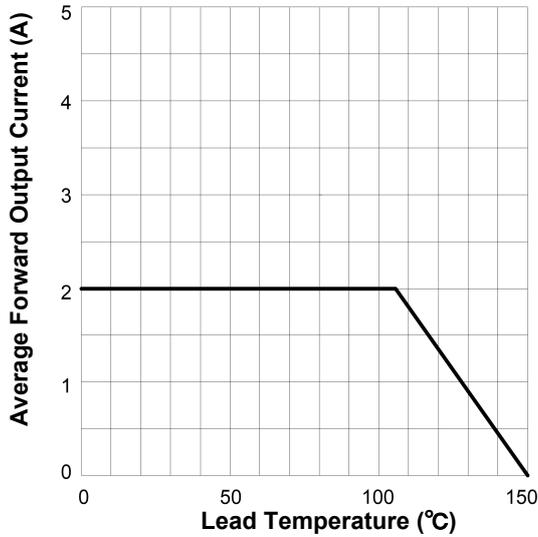


FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT Per Diode

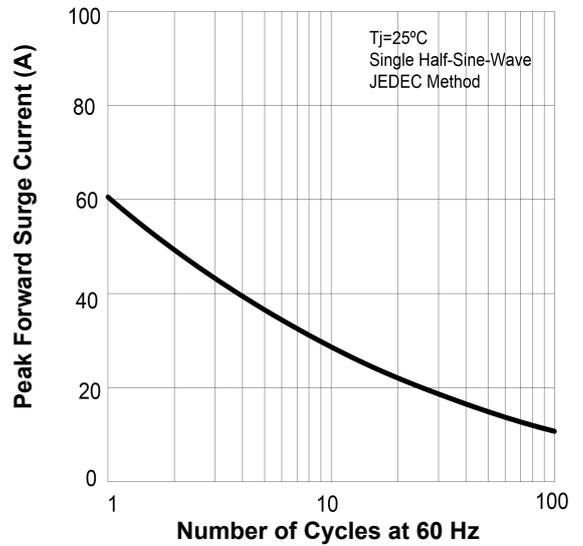


FIG. 3- TYPICAL FORWARD VOLTAGE

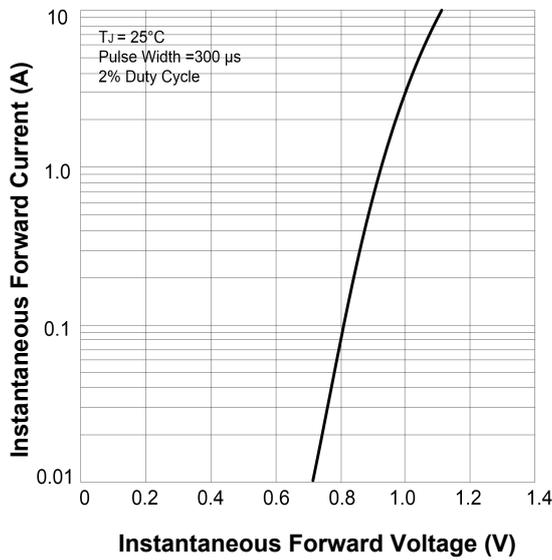
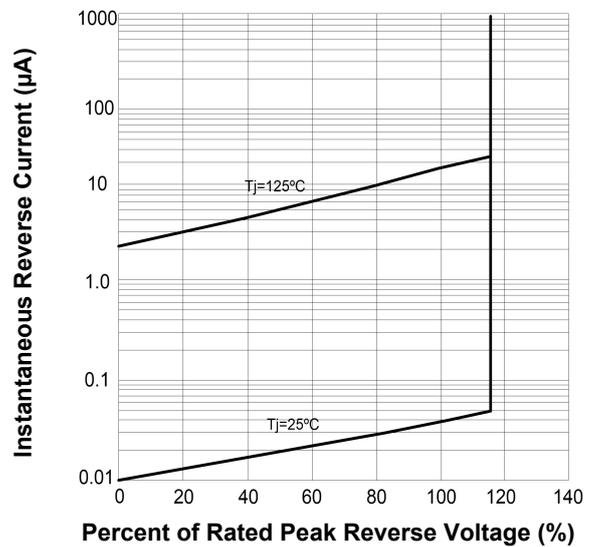


FIG. 4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS



The curve above is for reference only.



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