

<p style="text-align: center;">Single Phase Glass Passivated Fast Recovery Bridge Rectifiers</p>	<p style="text-align: center;">Reverse Voltage: 50V to 1000V Forward Current: 2 Amp</p>
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Features

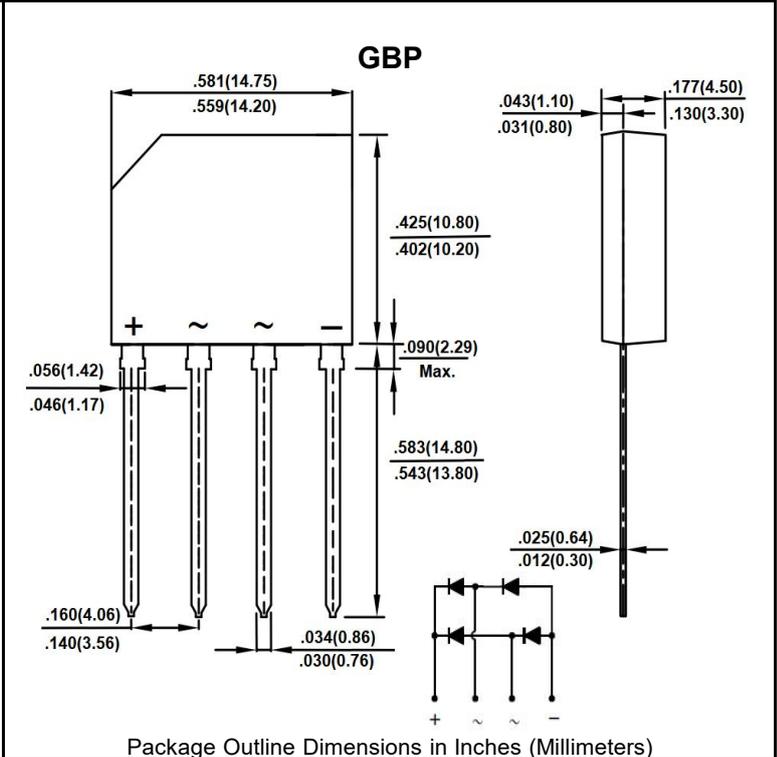
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- Solder dip 260°C max. 10 s, per JESD 22-B106

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.	RGBP 2005	RGBP 201	RGBP 202	RGBP 204	RGBP 206	RGBP 208	RGBP 210	Unit
Device marking code		RGBP 2005	RGBP 201	RGBP 202	RGBP 204	RGBP 206	RGBP 208	RGBP 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}	50							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.	RGBP 2005	RGBP 201	RGBP 202	RGBP 204	RGBP 206	RGBP 208	RGBP 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.	RGBP 2005	RGBP 201	RGBP 202	RGBP 204	RGBP 206	RGBP 208	RGBP 210	Unit	
Maximum reverse recovery time <small>IF=0.5A, IR=-1.0A, IRR=-0.25A</small>	T _{rr}	150				250	500			ns
Maximum Instantaneous Forward Voltage per diode <small>IF= 1A</small>	V _{FM}	1.3							V	
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	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

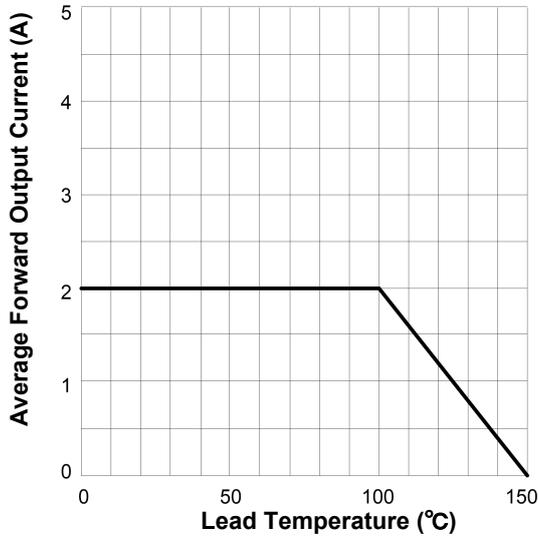


FIG. 2- -MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT Per Diode

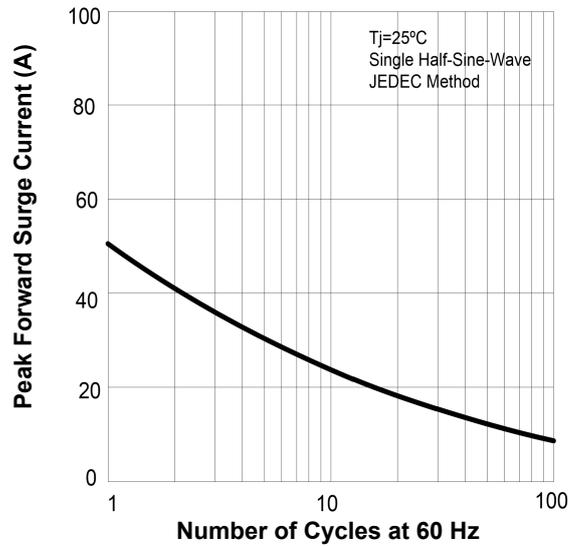


FIG. 3- TYPICAL FORWARD VOLTAGE

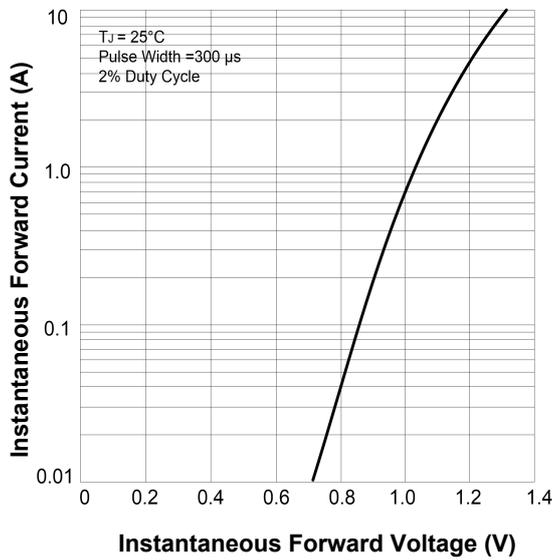
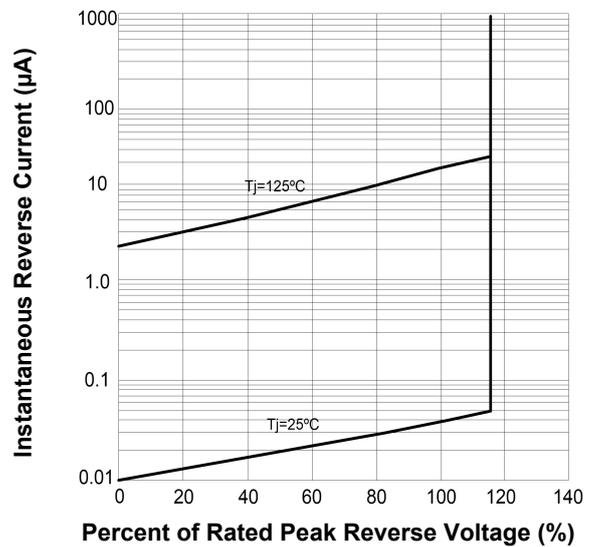


FIG. 4- TYPICAL REVERSE LEAKAGE CHARACTERISTICS



The curve above is for reference only.



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