



*DC COMPONENTS CO., LTD.*

RECTIFIER SPECIALISTS

**GBP2005  
THRU  
GBP210**

**TECHNICAL SPECIFICATIONS OF SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER**

**VOLTAGE RANGE - 50 to 1000 Volts**

**CURRENT - 2.0 Amperes**

**FEATURES**

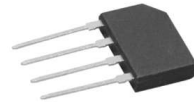
- \* Ideal for printed circuit board
- \* Surge overload ratings - 60 Amperes
- \* Low forward voltage drop
- \* High Reliability
- \* Glass passivated junction

**MECHANICAL DATA**

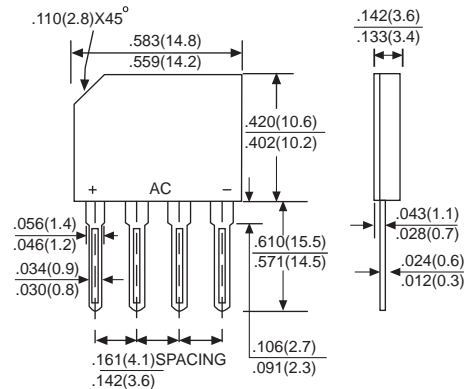
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: As marked
- \* Mounting position: Any
- \* Weight: 1.26 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Single phase, half wave, 60 Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



**GBP**



Dimensions in inches and (millimeters)

	SYMBOL	GBP2005	GBP201	GBP202	GBP204	GBP206	GBP208	GBP210	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts	
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts	
Maximum Average Forward Rectified Output Current at TA = 50°C	Io	2.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60							Amps	
Maximum Forward Voltage Drop per element at 2.0A DC	VF	1.1							Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage per element	IR	@ TA = 25°C	10							μAmps
		@ TA = 100°C	1000							
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150							°C	

# RATING AND CHARACTERISTIC CURVES (GBP2005 THRU GBP210)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

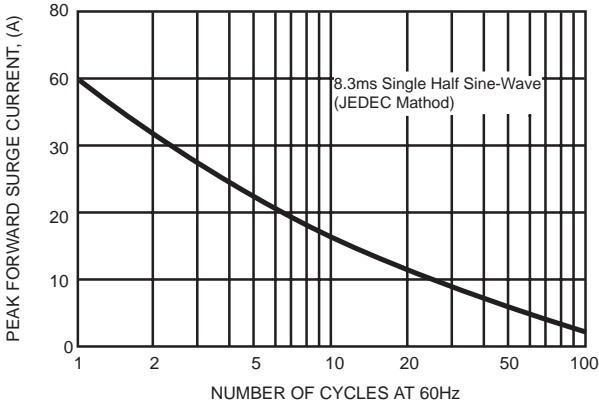


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

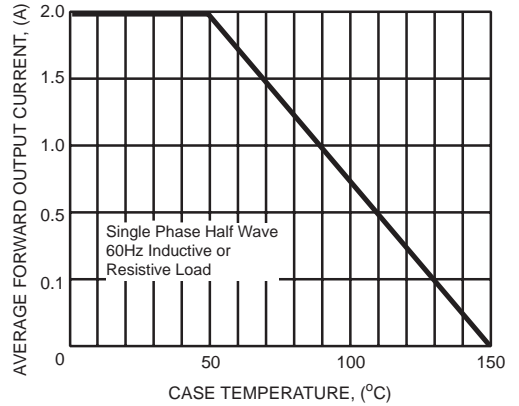


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

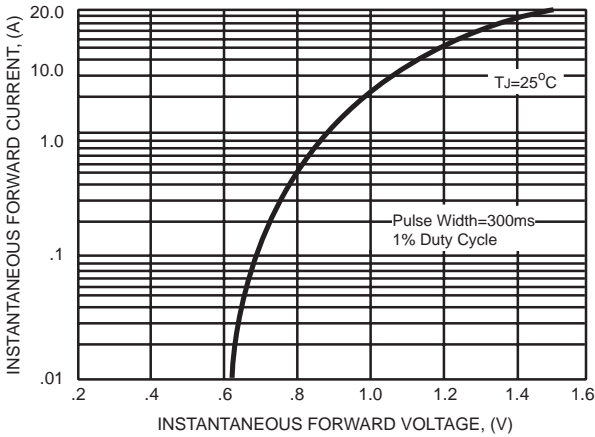


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

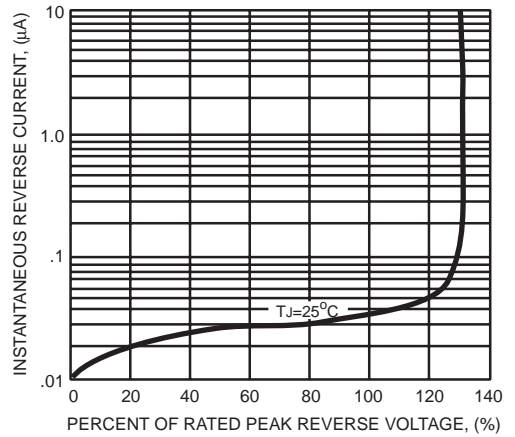
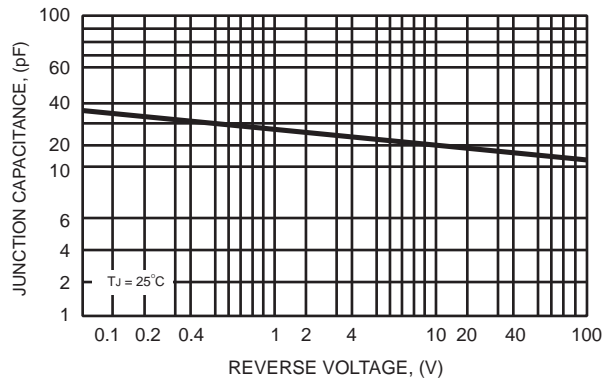


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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