



**GBP Plastic-Encapsulate Bridge Rectifier**

**GBP4005 THRU GBP410** General Purpose Bridge Rectifier

**Features**

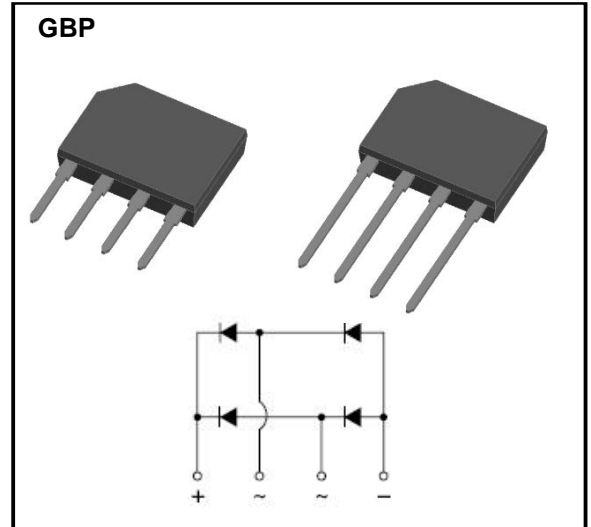
- I<sub>o</sub>            4A
- V<sub>RRM</sub>        50V-1000V
- High surge current capability
- Glass passivated chip

**Applications**

- General purpose 1 phase Bridge rectifier applications

**Marking**

- GBP4XX
- XX : From 005 To 10



**Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	GBP4						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I <sub>o</sub>	A	60Hz sine wave, R-load T <sub>c</sub> =50°C	4.0						
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	A	60Hz sine wave, 1 cycle, T <sub>j</sub> =25°C	125						
Current Squared Time	I <sup>2</sup> t	A <sup>2</sup> S	1ms ≤ t < 8.3ms T <sub>j</sub> =25°C, Rating of per diode	64.8						
Storage Temperature	T <sub>stg</sub>	°C		-55 ~+150						
Junction Temperature	T <sub>j</sub>	°C		-55 ~+150						

**Electrical Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =4.0A, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I <sub>RRM</sub>	μ A	V <sub>RM</sub> =V <sub>RRM</sub> , Pulse measurement, Rating of per diode	10
Thermal Resistance	R <sub>θ J-A</sub>	°C/W	Between junction and ambient	47
	R <sub>θ J-C</sub>		Between junction and lead	10

# Typical Characteristics

FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

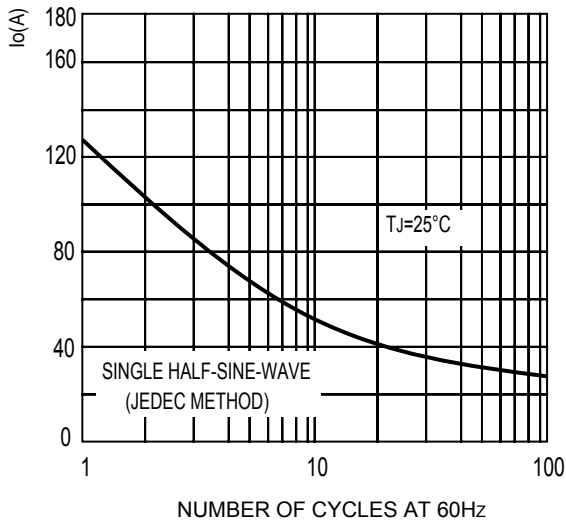


FIG.2-FORWARD DERATING CURRENT

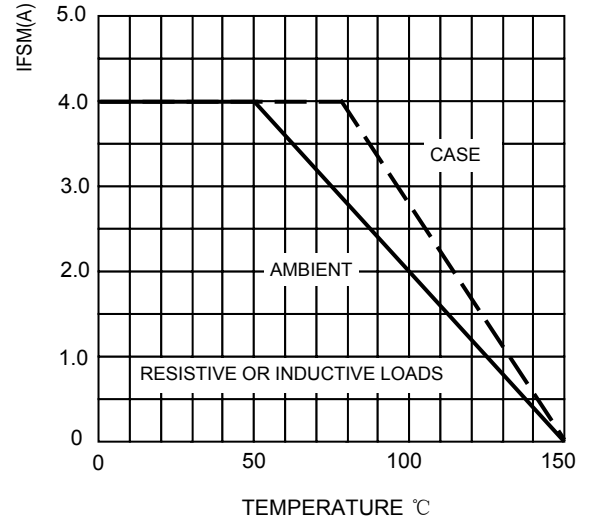


FIG.3-TYPICAL FORWARD CHARACTERISTICS

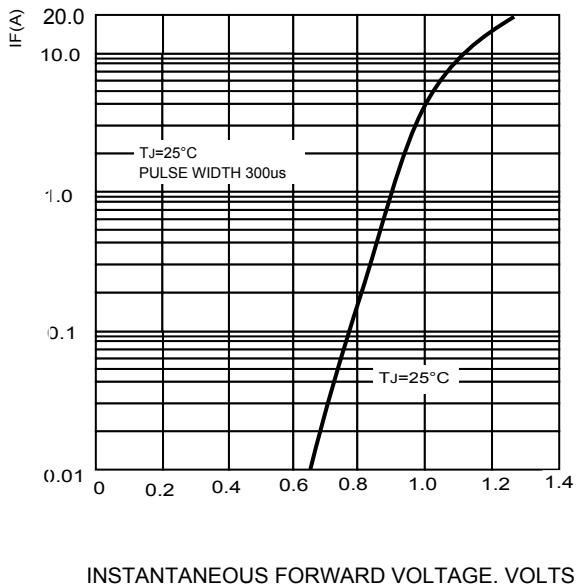
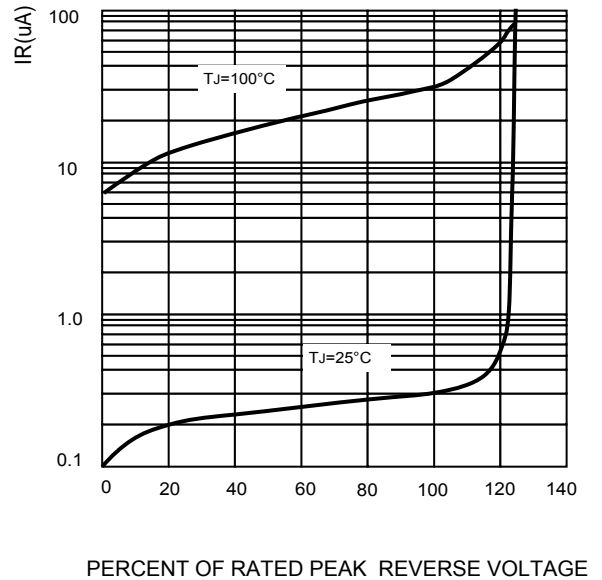
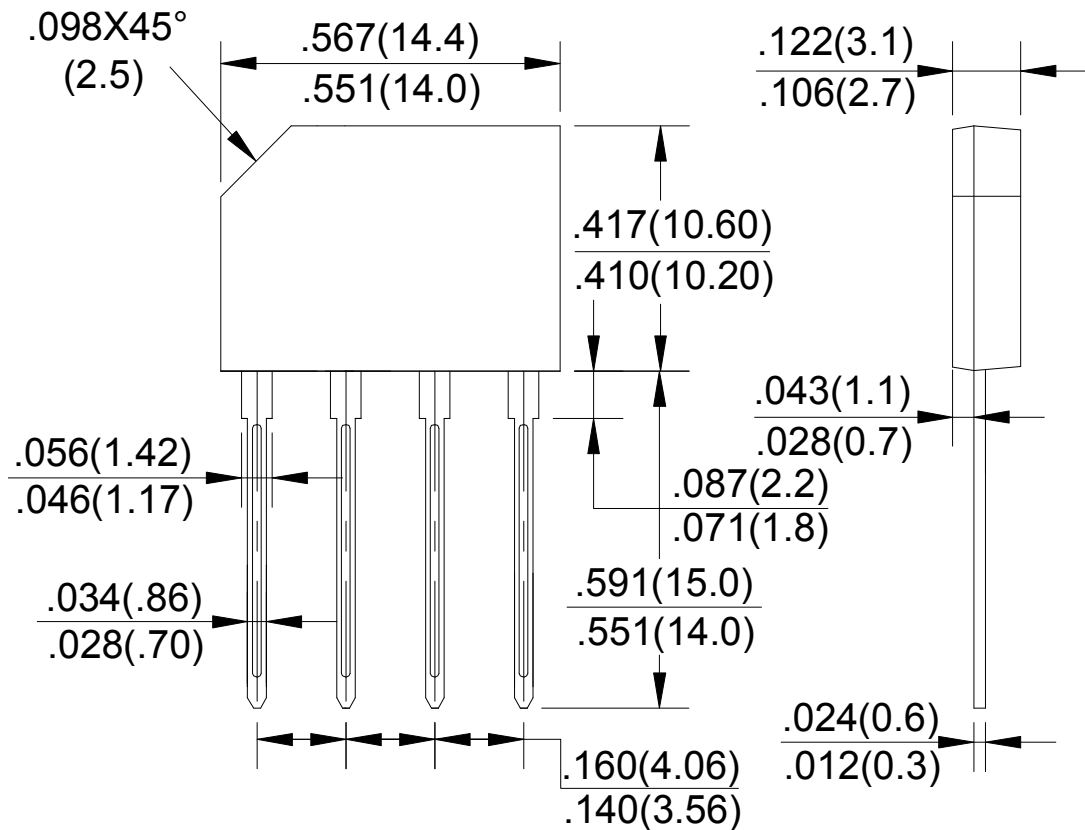
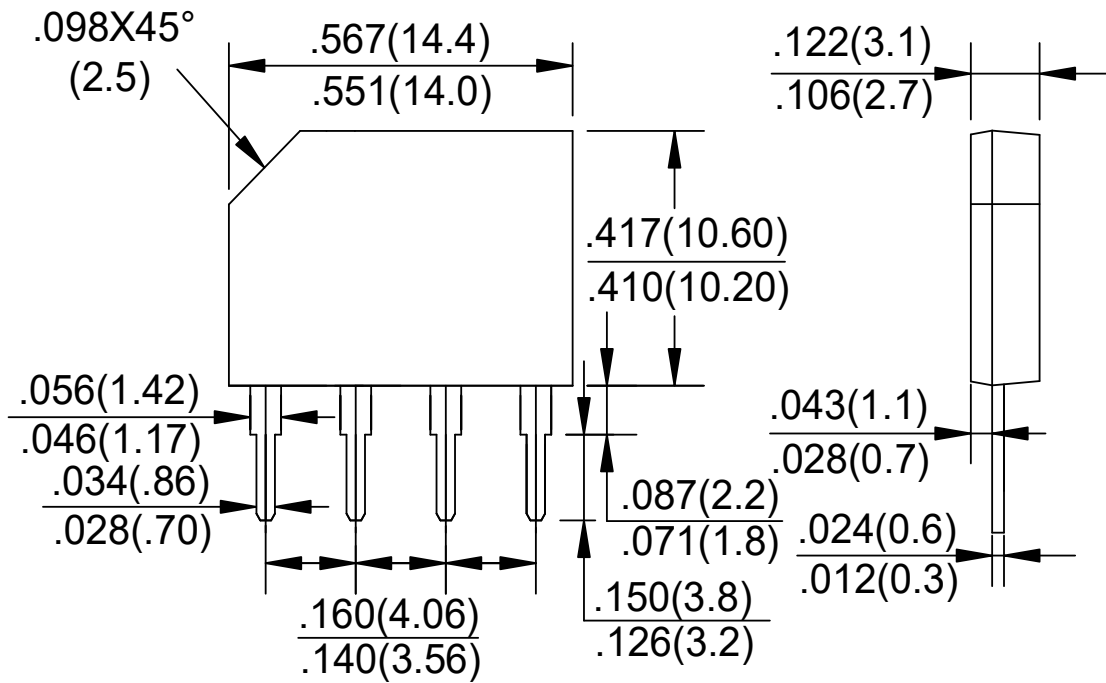


FIG.4-TYPICAL REVERSE CHARACTERISTICS



# GBP Package Outline Dimensions



Dimensions in inches and (millimeters)

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