

GBP Plastic-Encapsulate Bridge Rectifier

Features

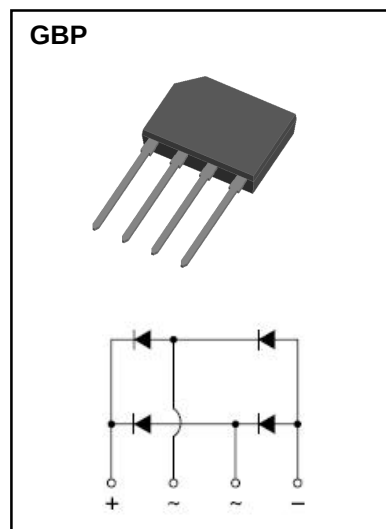
- I_O 3.0A
- V_{RRM} 50V-1000V
- High surge current capability

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- GBP3XX
- XX : From 005 To 10



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions		GBP3						
					005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V _{RRM}	V			50	100	200	400	600	800	1000
Average Rectified Output Current	I _O	A	60Hz sine wave, R-load	Tc=100℃	3.0						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz sine wave, 1 cycle, T _j =25℃		75						
Current Squared Time	I ² t	A ² S	1ms≤t<8.3ms T _j =25℃， Rating of per diode		23.3						
Storage Temperature	T _{stg}	℃			-55 ~+150						
Junction Temperature	T _j	℃			-55 ~+150						

Electrical Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=3.0\text{A}$, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^{\circ}\text{C}/\text{W}$	Between junction and ambient	47
	$R_{\theta J-C}$		Between junction and lead	10

Typical Characteristics

FIG.1-FORWARD CURRENT DERATING CURVE

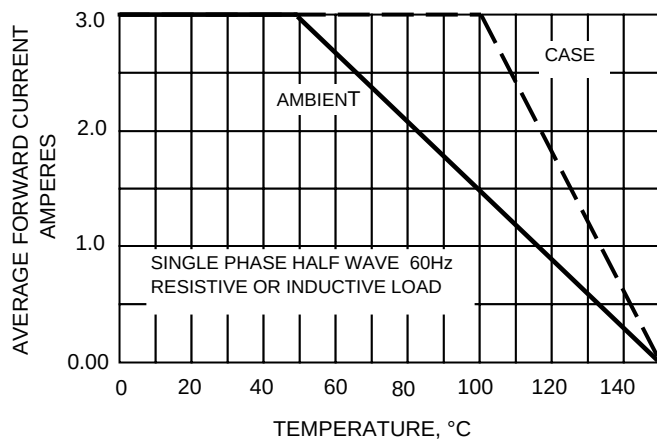


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

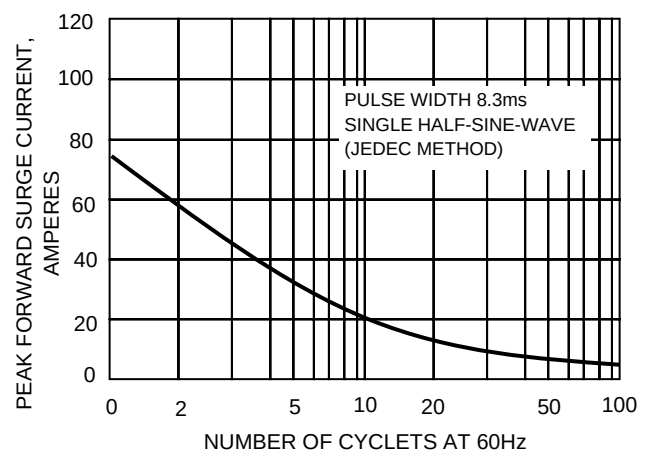


FIG.3-TYPICAL REVERSE CHARACTERISTICS

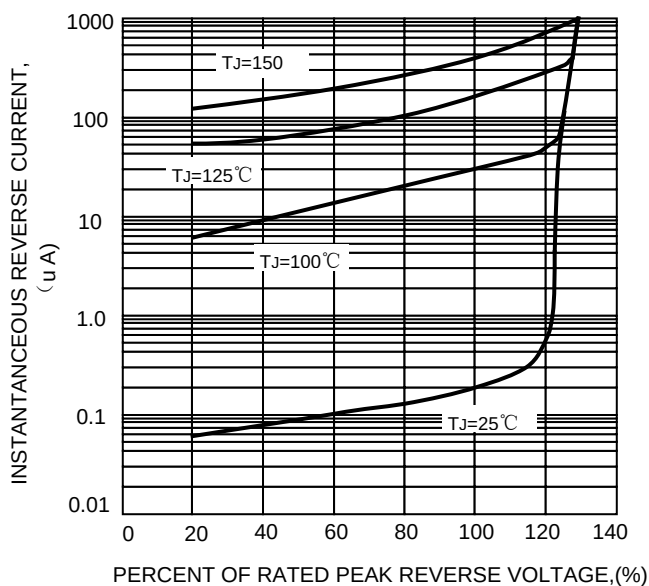
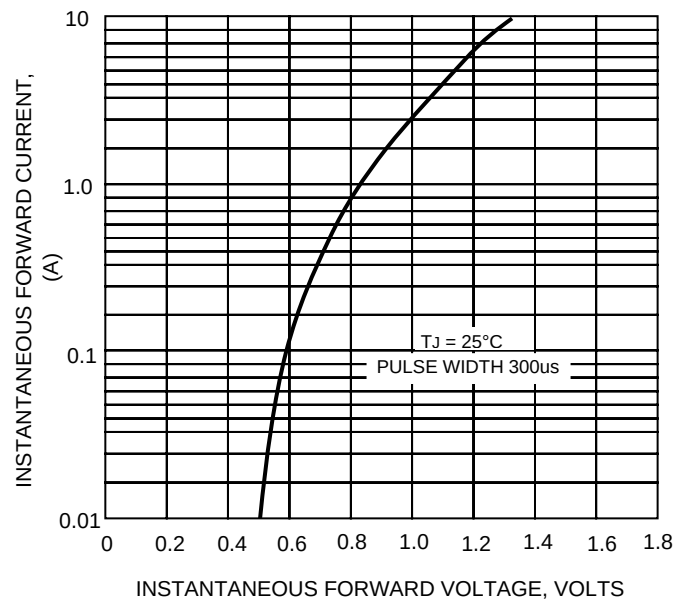
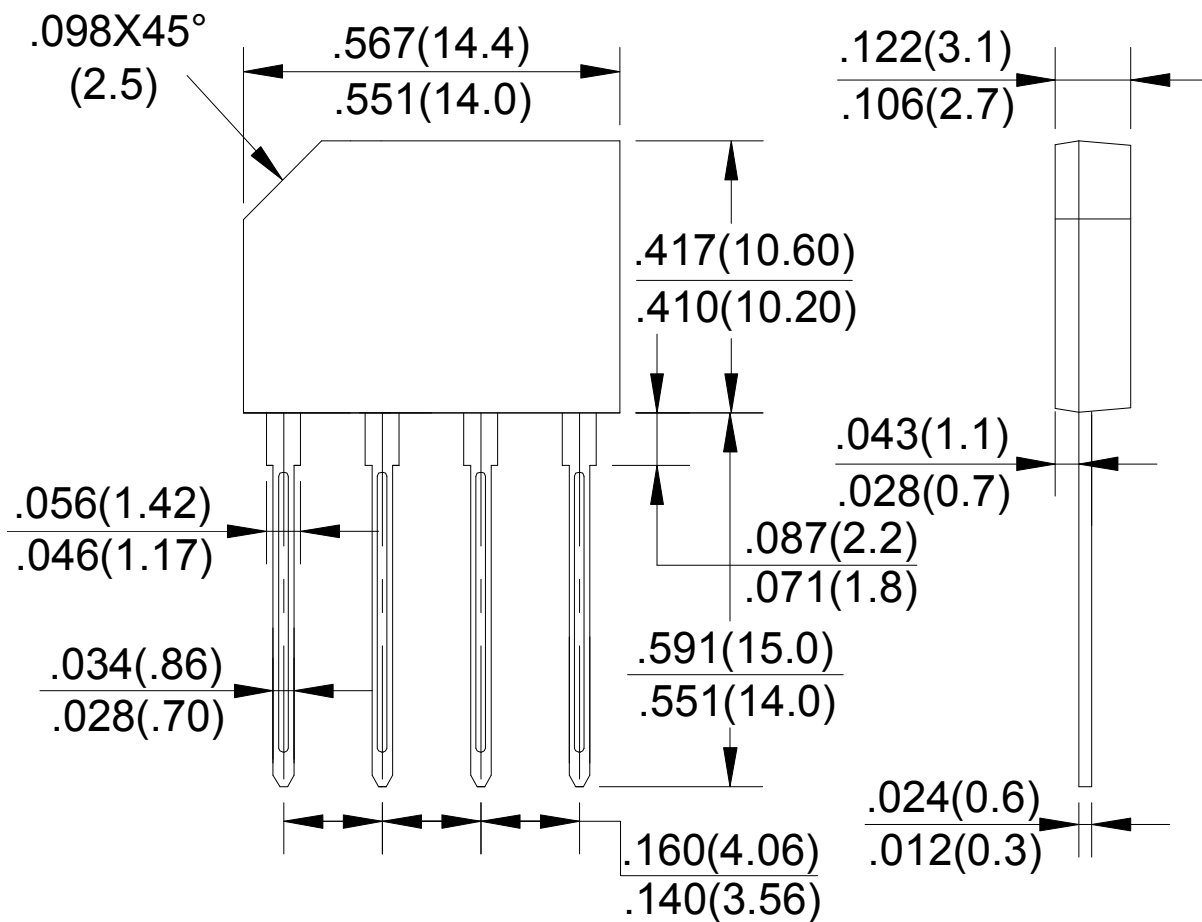


FIG.4-TYPICAL FORWARD CHARACTERISTICS



The curve graph is for reference only, can't be the basis for judgment



Dimensions in millimeters

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