



GBP Plastic-Encapsulate Bridge Rectifier

GBP3005 THRU GBP310

General Purpose Bridge Rectifier

Features

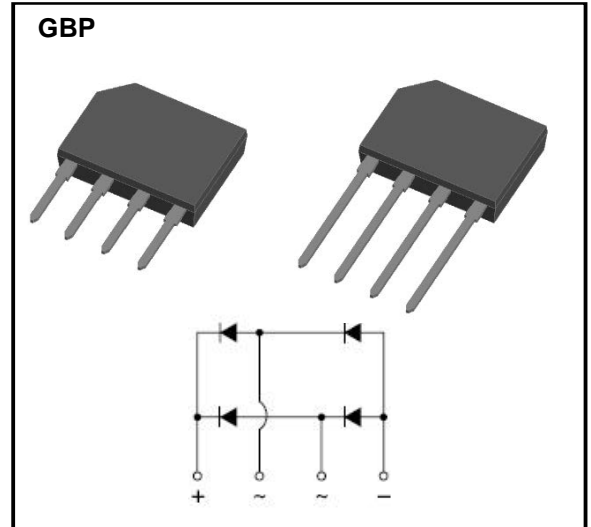
- I_o 3A
- VRRM 50V-1000V
- High surge current capability
- Glass passivated chip

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
Maximum RMS Voltage	V _{RMS}	V		35	70	140	280	420	560	700
Average Rectified Output Current	I _o	A	60Hz sine wave, R-load	T _c =50°C		3.0				
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz sine wave, 1 cycle, T _j =25°C		75					
Current Squared Time	I ² t	A ² S	1ms ≤ t < 8.3ms T _j =25°C, Rating of per diode		24					
Storage Temperature	T _{stg}	°C	-55 ~+150							
Junction Temperature	T _j	°C	-55 ~+150							

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

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =3.0A, Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	I _R	μA	V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode	10
Thermal Resistance	R _{θ J-A}	°C/W	Between junction and ambient	47
	R _{θ J-C}		Between junction and lead	10

Typical Characteristics

FIG.1-FORWARD CURRENT DERATING CURVE

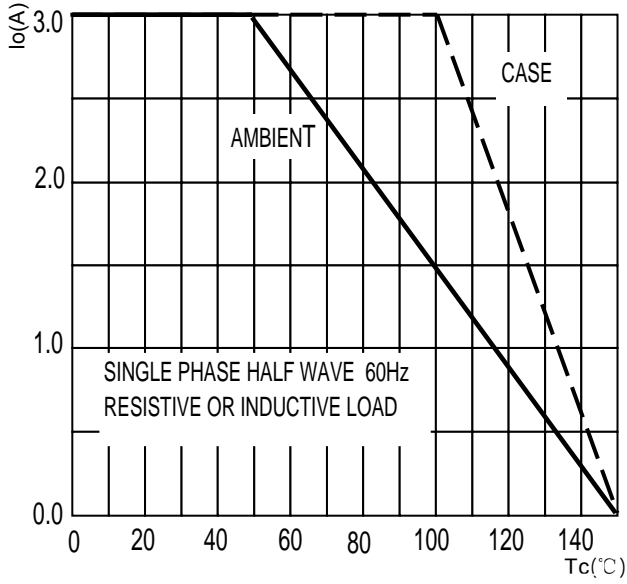


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

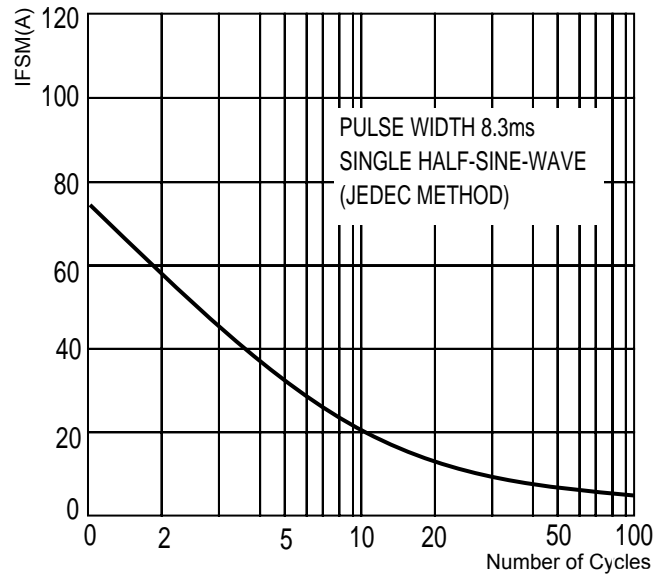


FIG.3-TYPICAL FORWARD CHARACTERISTICS

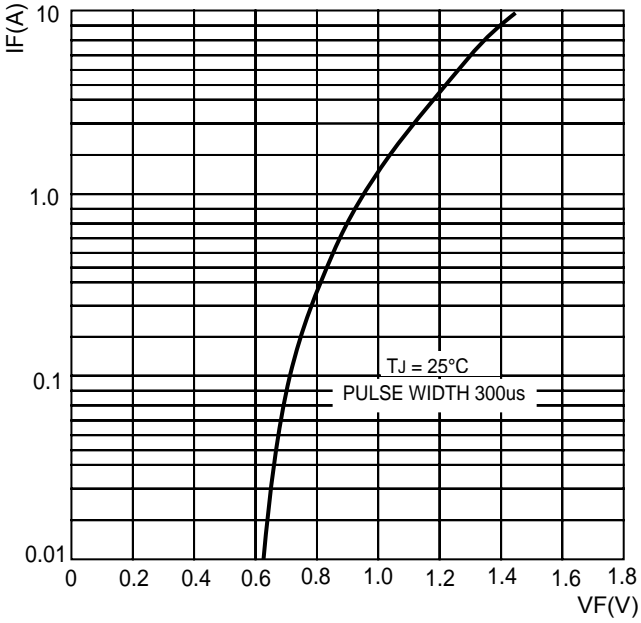
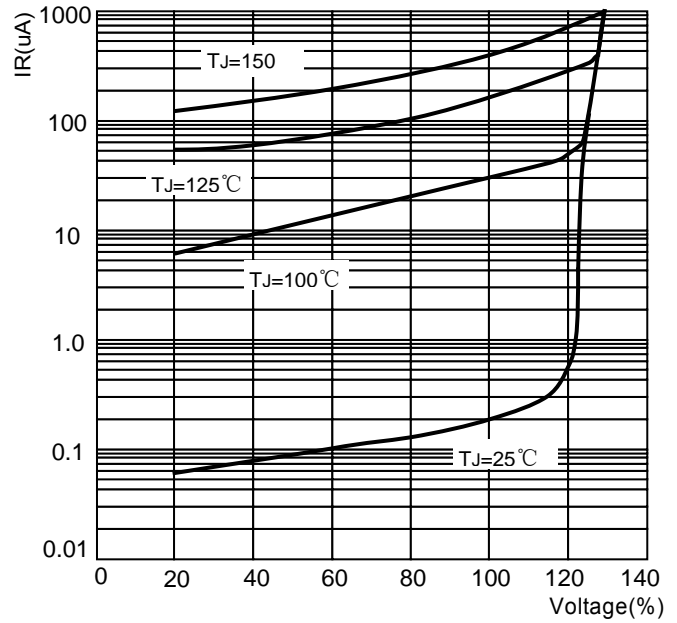
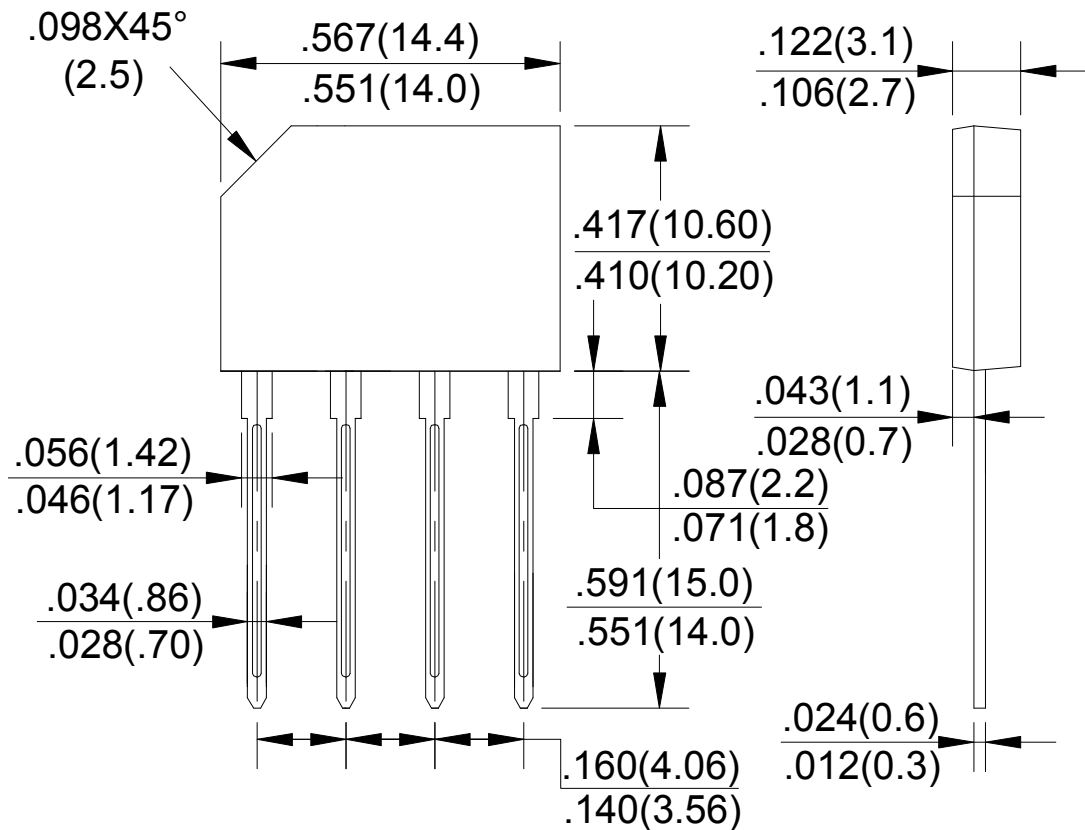
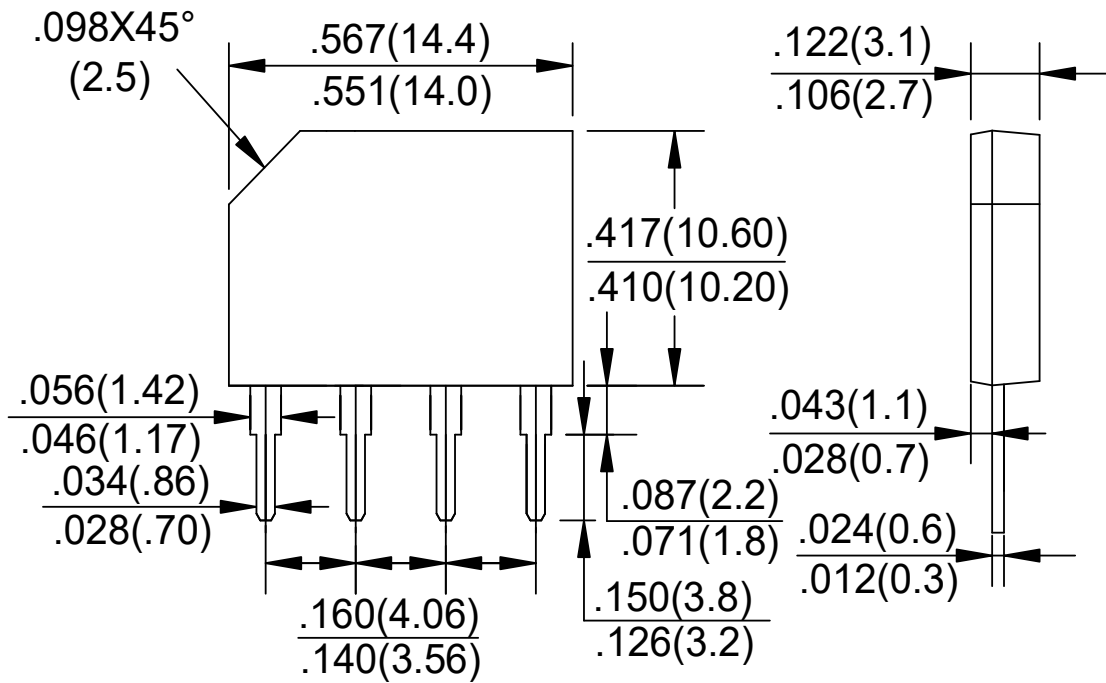


FIG.4-TYPICAL REVERSE CHARACTERISTICS



GBP Package Outline Dimensions



Dimensions in inches and (millimeters)

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