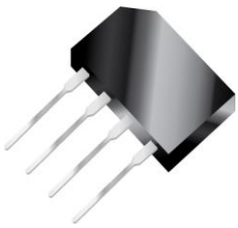
GBP2005 thru GBP210

Glass Passivated Bridge Rectifier



GBP

Primary Characteristics		
I_F	2	A
V_{RRM}	50~1000	V
I_{FSM}	60	A
V_F	1.1	V
T_J max	150	°C

Features

- Surge overload rating - 60 amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any

Applications

- General purpose 1 phase Bridge rectifier applications

Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 208	GBP 210	Unit
Maximum repetitive 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 Rectified Output Current @ T_A=50°C	I_F	2.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	60.0							A
Maximum Instantaneous Forward Voltage @ 2.0A	V_F	1.1							V
I^2t Rating for Fusing (t<8.3ms)	I^2t	17							A^2S
Maximum DC Reverse Current @ T_J=25°C rated DC blocking voltage per leg T_J = 100°C	I_R	10 5							uA mA
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Glass Passivated Bridge Rectifier

Rating and Characteristics Curves

FIG.1-FORWARD CURRENT DERATING CURVE

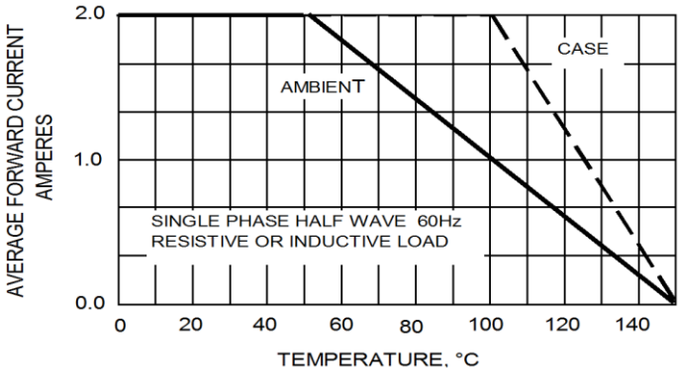


FIG.2-MAXIMUM NON-REPETITIVE SUNRGE CURRENT

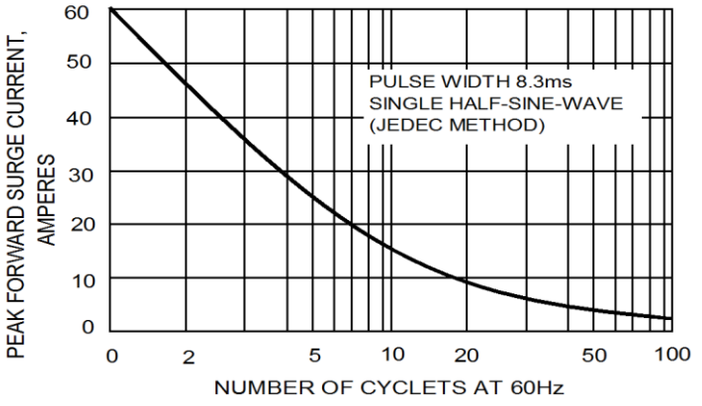


FIG.3-TYPICAL REVERSE CHARACTERISTICS

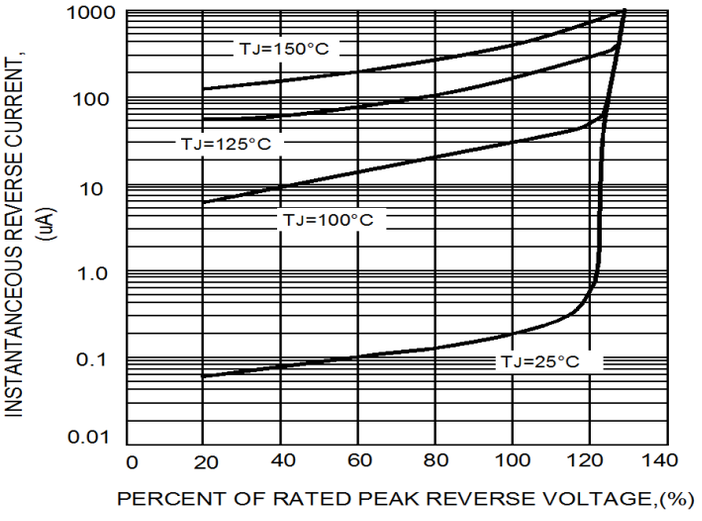
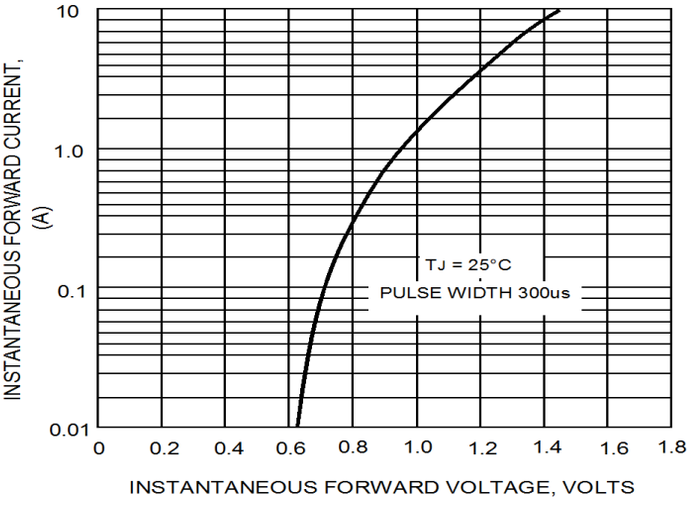
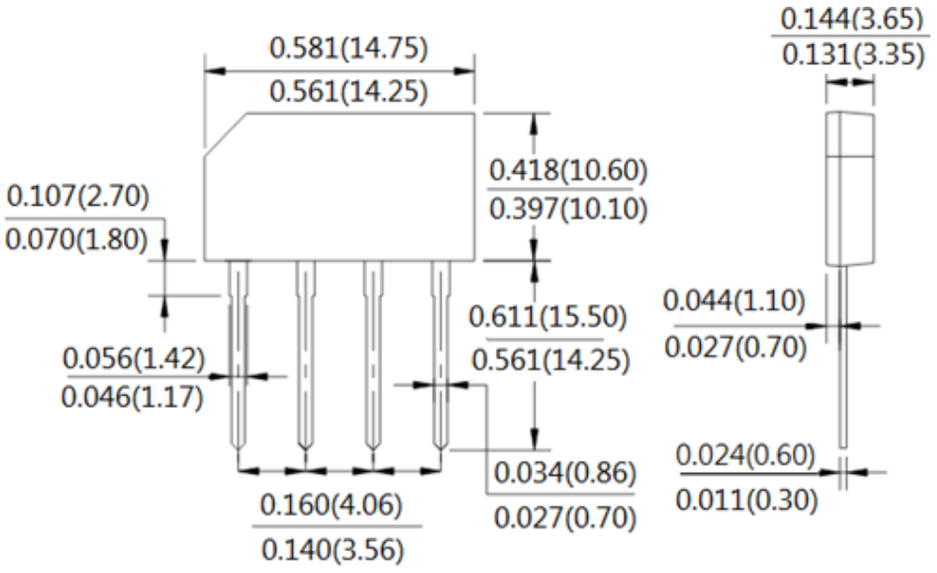


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Glass Passivated Bridge Rectifier

Package Outline Dimensions



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Dimensions in inches and (millimeters)