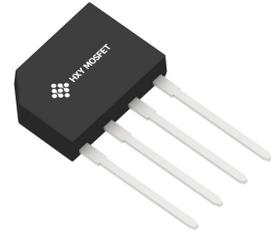




## Features

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

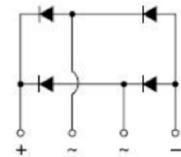


GBP

## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
GBP6005-GBP610	GBP	GBP6xx	500

xx:005-10.



## Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

CHARACTERISTICS	SYMBOL	GBP 6005	GBP 601	GBP 602	GBP 604	GBP 606	GBP 608	GBP 610	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	VRMS	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ TA=50°C	I(AV)	6.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	IFSM	60							A
Maximum Forward Voltage Drop Per Bridge Element at 6.0A Peak	VF	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	IR	10.0							uA
Maximum Reverse Current at Rated DC Blocking Voltage Per Element TA=100°C	IR	1.0							mA
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C



### Rating and Characteristic Curves ( $T_A=25^{\circ}\text{C}$ Unless otherwise noted )

FIG.1-FORWARD CURRENT DERATING CURVE

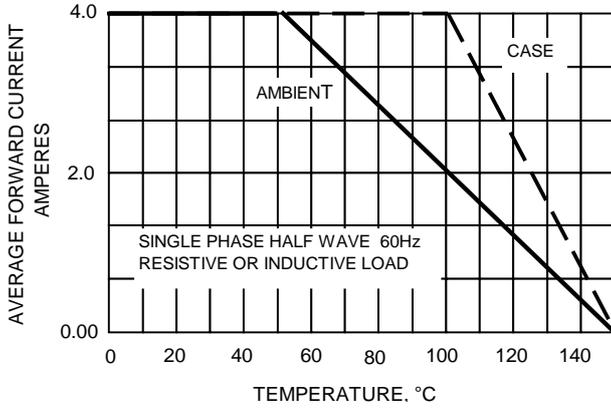


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

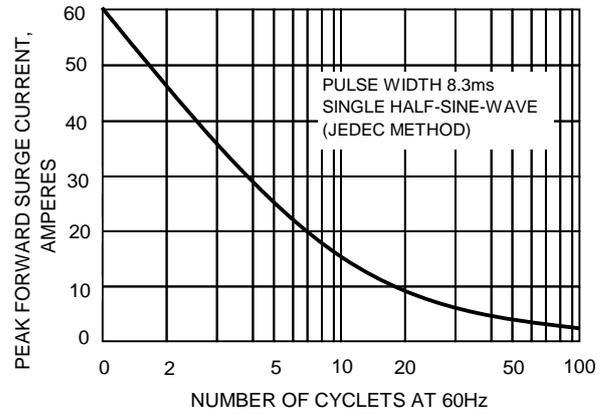


FIG.3-TYPICAL JUNCTION CAPACITANCE

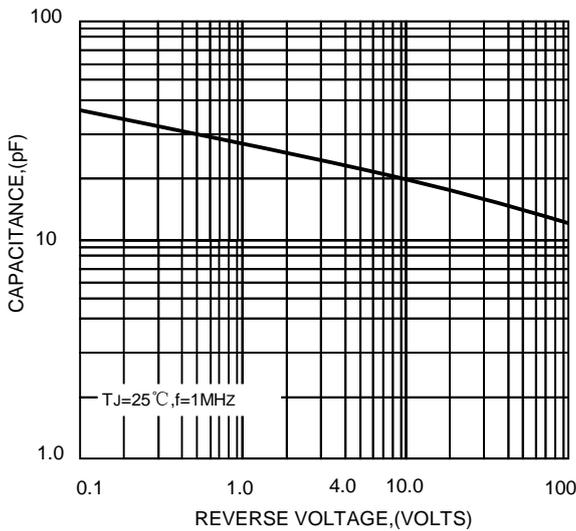


FIG.4-TYPICAL FORWARD CHARACTERISTICS

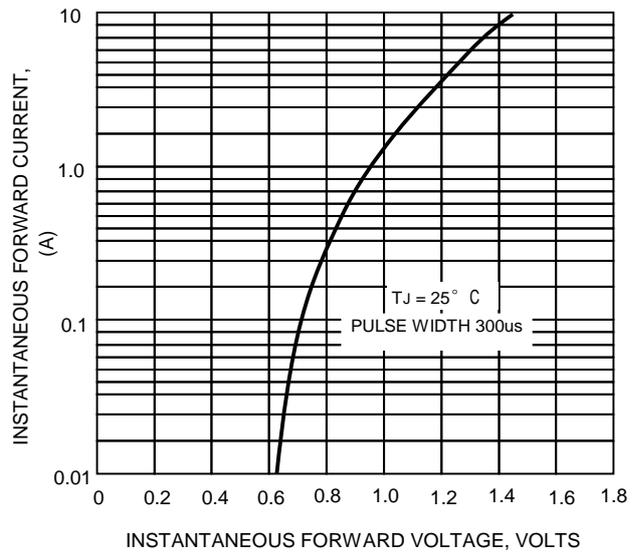
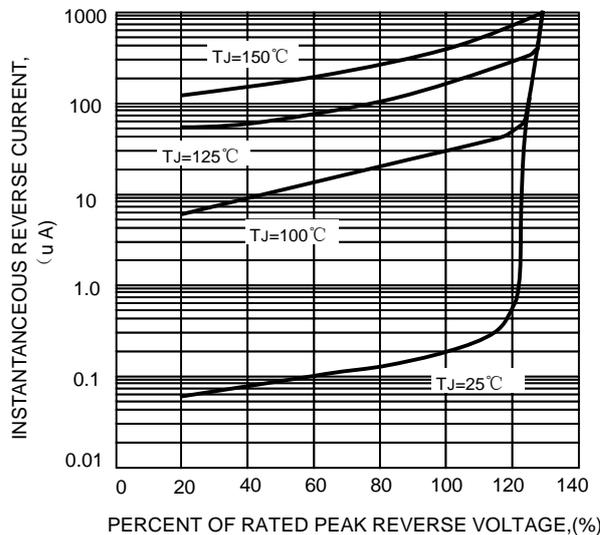
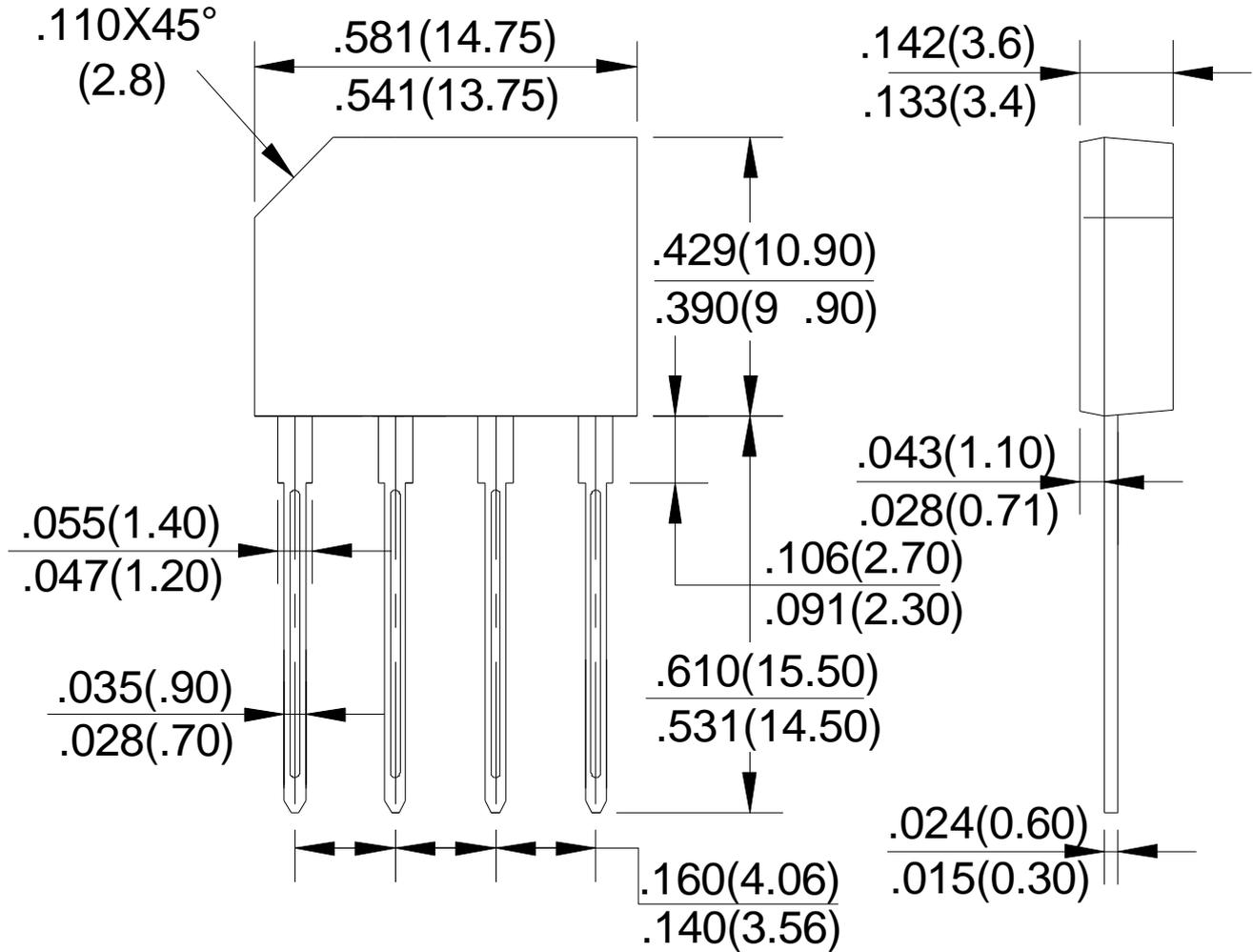


FIG.5-TYPICAL REVERSE CHARACTERISTICS





### GBP Package Outline Dimensions





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