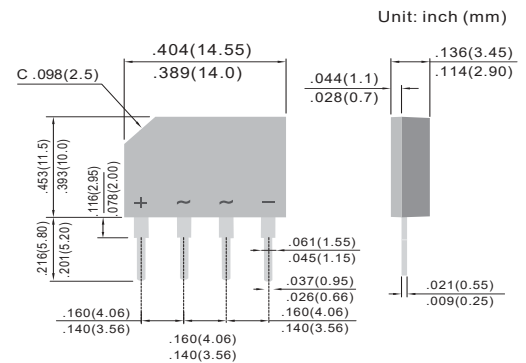


Glass Passivated Bridge Rectifier

FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating : 60 Amperes peak
- Both normal and Pb free product are available :
Normal : 80~95% Sn, 5~20% Pb
Pb free: 98.5% Sn above

GBP


MECHANICAL DATA

Terminals: Leads solderable per MIL-STD-202,
Method 208 Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current voltage by 20%.

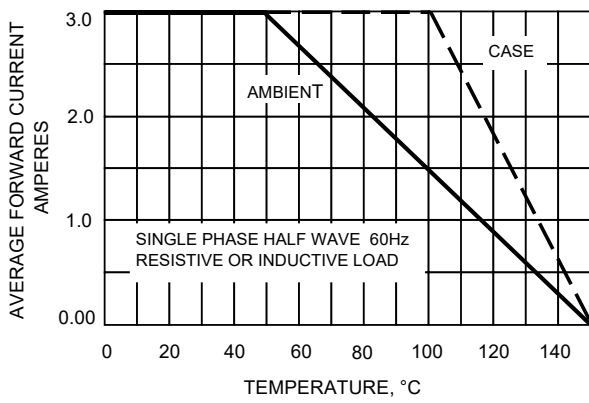
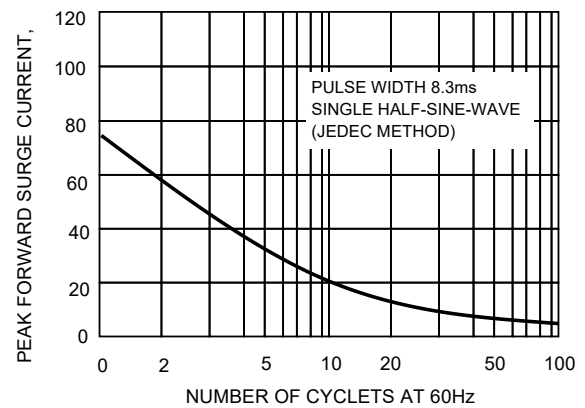
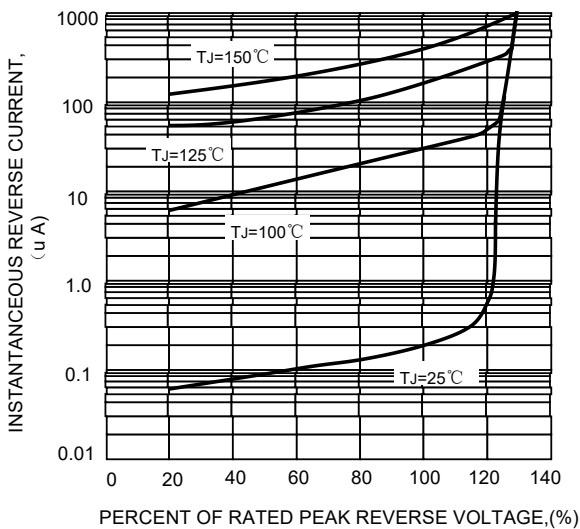
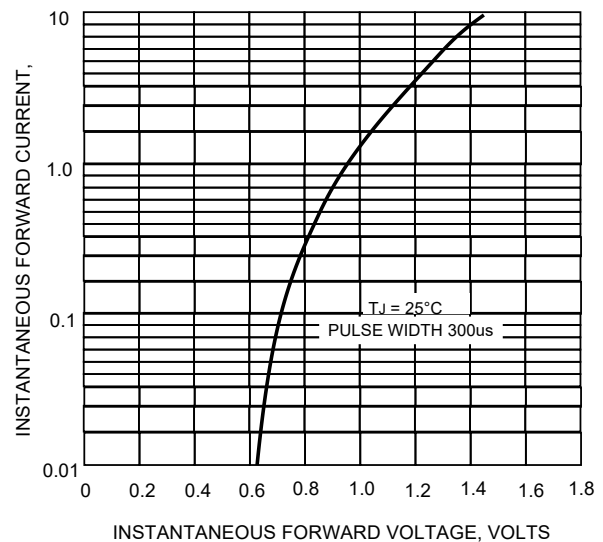
CHARACTERISTICS	SYMBOL	GBP 300	GBP 301	GBP 302	GBP 304	GBP 306	GBP 308	GBP 310	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T _A =50°C	I _(AV)	3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	75							A
Maximum Forward Voltage Drop Per Bridge Element at 3.0A Peak	V _F	1.1							V
I ² t Rating for Fusing(t<8.3ms)	I ² t	23.34							A ² s
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	I _R	10.0							uA
Maximum Reverse Current at Rated DC Blocking Voltage Per Element T _A =100°C	I _R	1.0							mA
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0 volts
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.47 x 0.47"(12 x 12mm)copper pads.

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

PARAMETER		SYMBOL	UNIT	GBP 300	GBP 301	GBP 302	GBP 304	GBP 306	GBP 308	GBP 310
Thermal Resistance	Between junction and ambient	R θ J-A	$^{\circ}\text{C}/\text{W}$	45						
	Between junction and Case	R θ J-C		5						

RATING AND CHARACTERISTIC CURVES
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

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