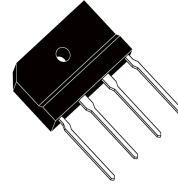
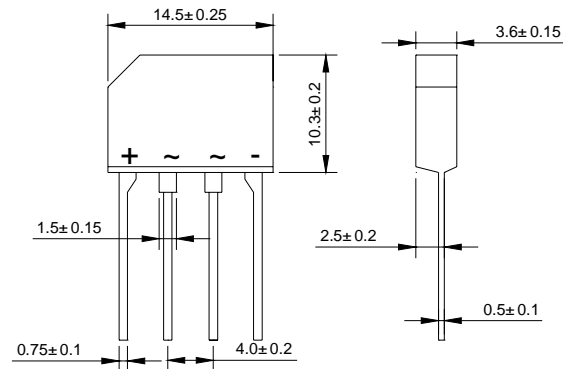


VOLTAGE RANGE: 50 - 1000V

CURRENT: 3.0 A



GBP



Dimensions in millimeters

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 : 70 Amperes peak

Mechanical Data

- Case: Molded Plastic
- Terminals: Leads solderable per MIL-STD-202, Method 208
- Mounting position: Any
- Weight: 0.06 ounce, 1.7 grams

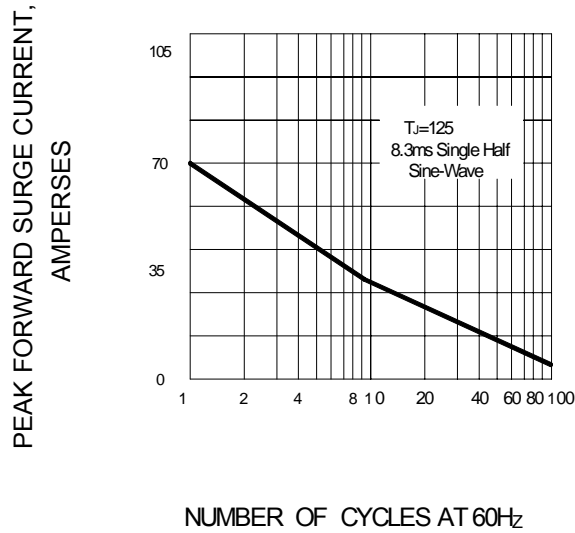


Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	GBP3005	GBP301	GBP302	GBP304	GBP306	GBP308	GBP310	Unit
Maximum recurrent 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 Output current @ $T_A = 25^\circ\text{C}$	$I_{F(AV)}$	3.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	70							A
Maximum instantaneous forward voltage @ 1.5 A	V_F	1.0							V
Maximum reverse current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	I_R	5.0 0.5							μA mA
Operating junction temperature range	T_J	- 55 ---- + 150							$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^\circ\text{C}$

FIG.1 – PEAK FORWARD SURGE CURRENT



**FIG.2 – FORWARD DERATING CURVE
OUTPUT RECTIFIED CURRENT**

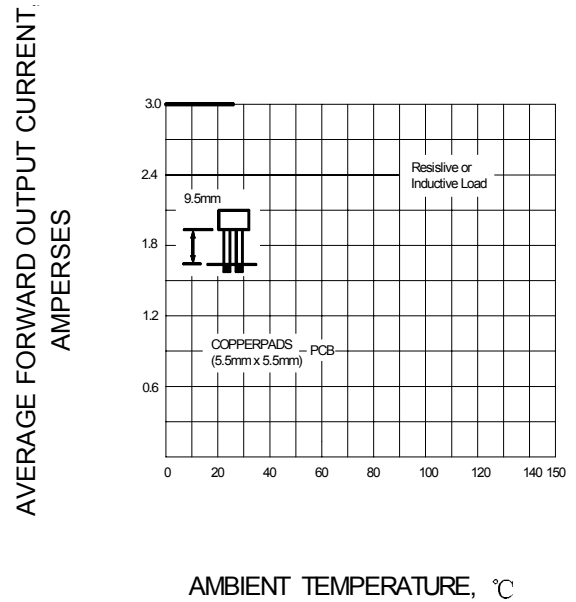


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

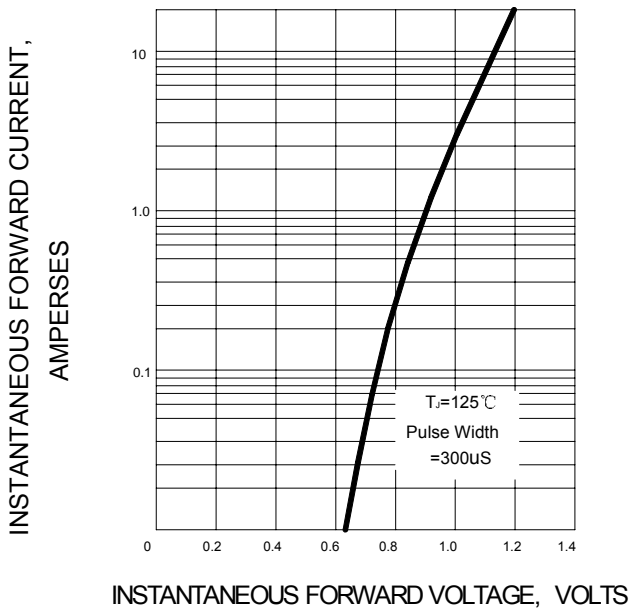


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

