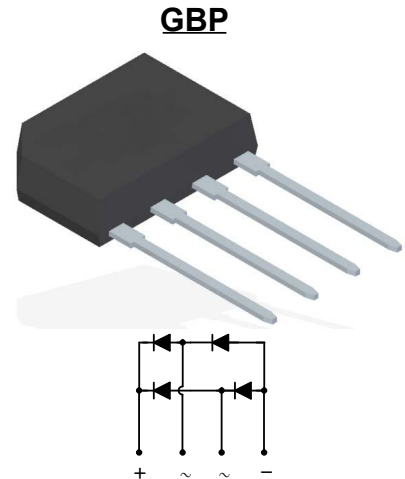


VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 1.0 A

Features

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 50 Amperes peak
- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◇ Lead solderable per MIL-STD-202 method 208
- ◇ Plastic material has UL flammability classification 94V-O
- ◇ Glass passivated junction
- ◇ Weight: 0.05 ounces, 1.52 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

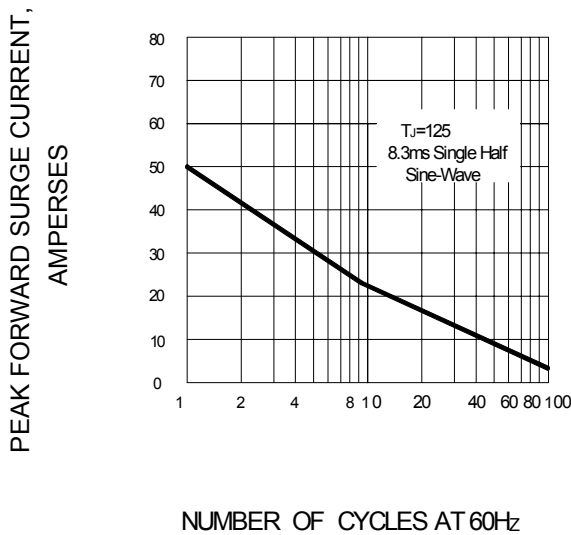
Ratings at 25°C ambient temperature unless otherwise specified.

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

		GBP 1005	GBP 101	GBP 102	GBP 104	GBP 106	GBP 108	GBP 110	UNITS
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 @ $T_A=25^\circ\text{C}$	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	50							A
I^2t Rating for fusing @ $T_j=25^\circ\text{C}$	I^2t	10.4							A ² S
Maximum instantaneous forward voltage @ 0.5 A	V_F	1.05							V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$	I_R	10.0 1.0							μA mA
Typical Thermal Resistance (Note)	$R_{\theta JA}$	80							°C/W
Operating junction temperature range	T_J	- 55 ---- + 150							°C
Storage temperature range	T_{STG}	- 55 ---- + 150							°C

Ratings AND Characteristic Curves

FIG.1 – PEAK FORWARD SURGE CURRENT



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

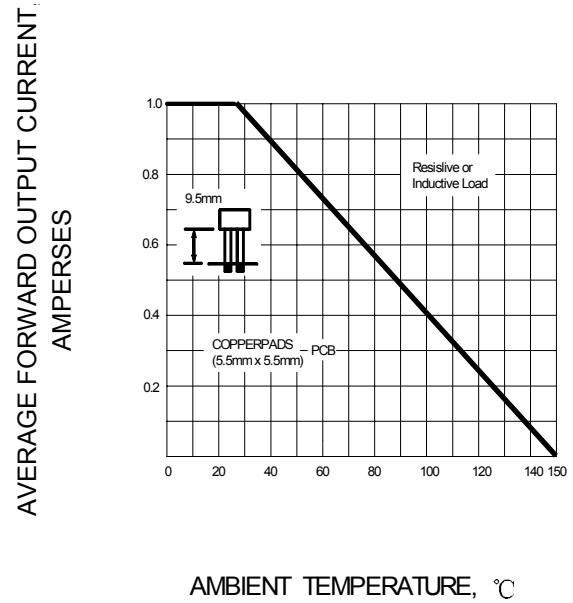


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

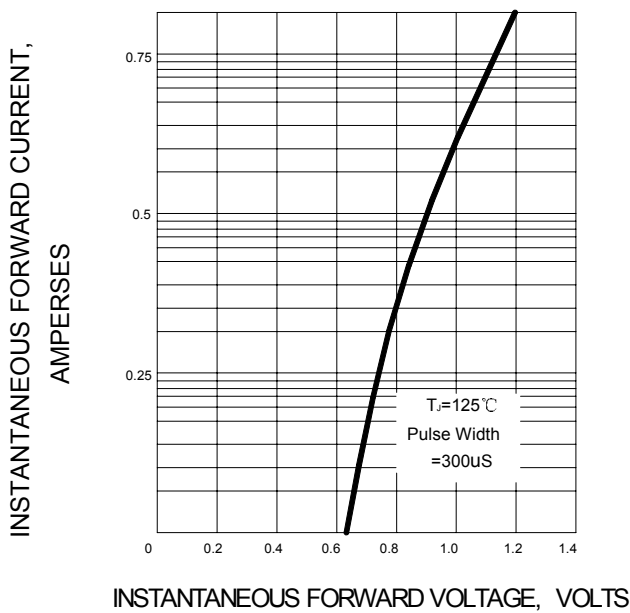
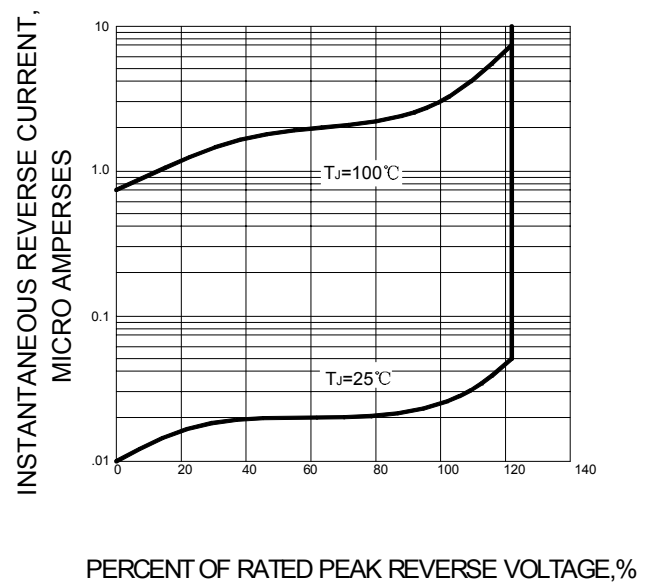
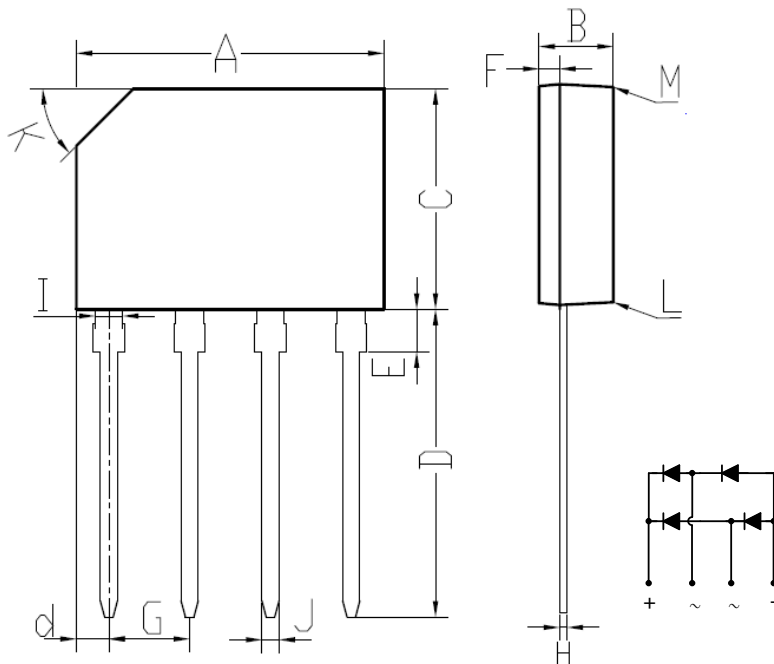


FIG.4 – TYPICAL REVERSE CHARACTERISTICS



GBP Package Outline Dimensions



GBP		
DIM.	MIN.	MAX.
A	14.25	14.75
B	3.35	3.65
C	10.20	10.60
D	14.25	14.73
d	1.40	1.70
E	1.80	2.20
F	0.80	1.10
G	3.56	4.06
H	0.35	0.55
I	1.22	1.42
J	0.76	0.86
K	2.7 x 45° (Typ)	
L	#	3°
M	#	2°
All Dimensions in millimeter		

Device	Package	Shipping
GBP1005--GBP110	GBP	500Units/Box