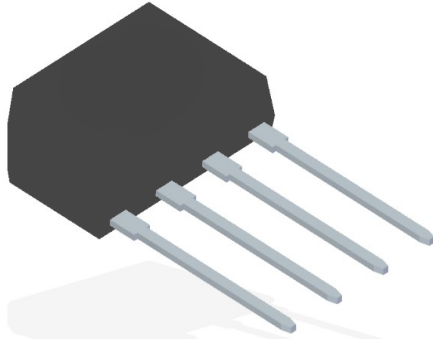


REVERSE VOLTAGE - **1000** Volts

FORWARD CURRENT - **2.0** Amperes

GBP



FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V#0

MECHANICAL DATA

- Polarity : As marked on body
- Weight : 0.05 ounces, 1.52 grams
- Mounting position : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	GBP210	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS Voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current @ $T_C=100^{\circ}C$ (With heatsink)	$I_{(AV)}$	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave @ $T_J = 25^{\circ}C$	I_{FSM}	60	A
Maximum Forward Voltage at 2.0A DC	V_F	1.1	V
Maximum DC Reverse Current at rated Blocking Voltage @ $T_J=25^{\circ}C$ @ $T_J=125^{\circ}C$	I_R	5.0 500	μA
I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$)	I^2t	15	A^2S
Typical Junction Capacitance per element (Note 1)	C_J	25	pF
Typical thermal resistance (Unit mounted on 30mmx30mmx1mm Copper plate heatsink.)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	10 12 30	$^{\circ}C/W$
Typical thermal resistance (without heatsink)	$R_{\theta JC}$ $R_{\theta JL}$ $R_{\theta JA}$	12 18 40	$^{\circ}C/W$
Operation Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

Note: (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Typical Characteristics

Fig.1 Average Rectified Output Current Derating Curve

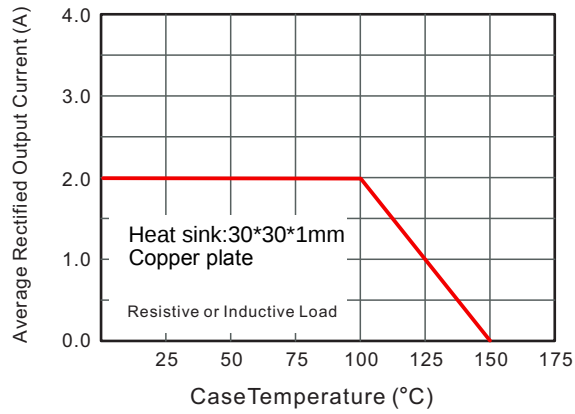


Fig.2 Typical Reverse Characteristics

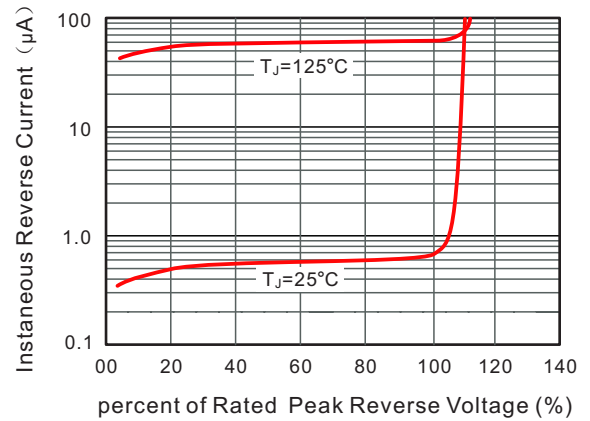


Fig.3 Typical Instantaneous Forward Characteristics

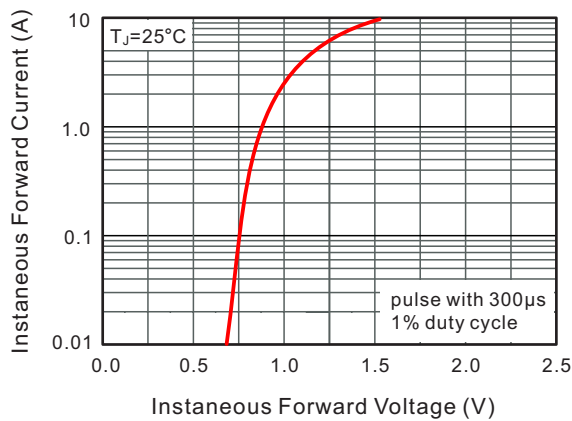
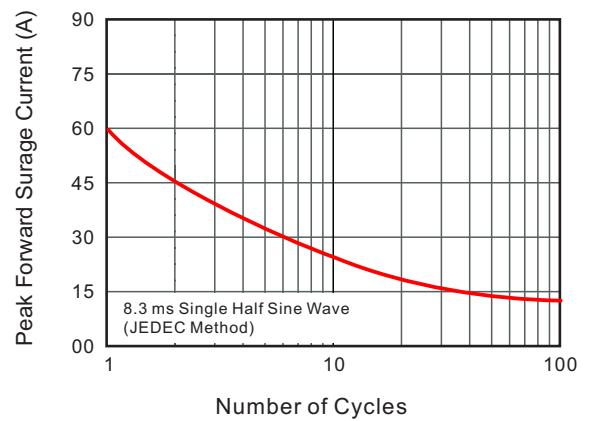
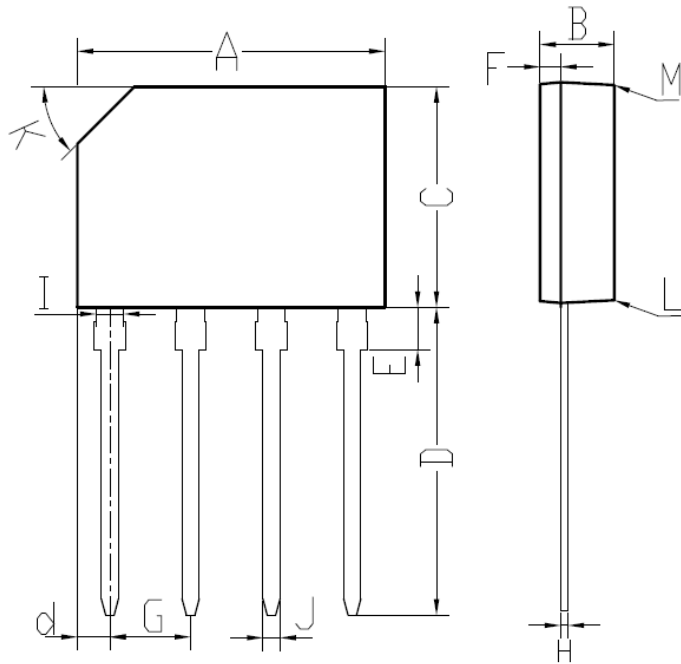


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



GBP Package Outline Dimensions



GBP		
DIM.	MIN.	MAX.
A	14.25	14.75
B	3.05	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		