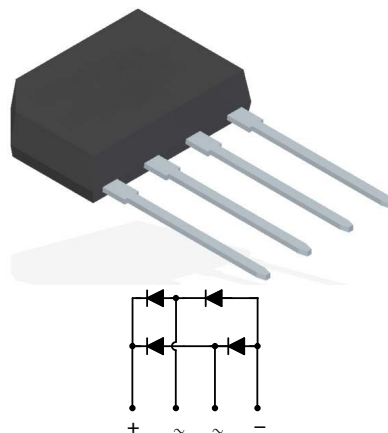


GBP

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 70Amperes 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 chip junctions



Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 207	GBP 208	GBP 210	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	700	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	490	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	700	800	1000	V
Maximum average forward Output current @TA=25°C	$I_{F(AV)}$	2.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	60								A
I ² t Rating for fusing @Tj=25°C	I ² t	14.94								A ² S

Thermal Characteristics

Characteristic	Symbol	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 207	GBP 208	GBP 210	UNITS
Typical Thermal Resistance (Note)	R _{θJA}	45								°C/W
	R _{θJC}	2.5								
	R _{θJL}	10								
Operating junction temperature range	T _J	- 55 ---- + 150								°C
Storage temperature range	T _{STG}	- 55 ---- + 150								°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	GBP 2005	GBP 201	GBP 202	GBP 204	GBP 206	GBP 207	GBP 208	GBP 210	UNITS
Maximum instantaneous forward voltage @1.0A	V_F	1.0								V
Maximum reverse current @TA=25°C at rated DC blocking voltage @TA=100°C	I_R	5.0								μ A
		0.5								mA

RATINGS AND CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

FIG1: I_o - T_c Curve

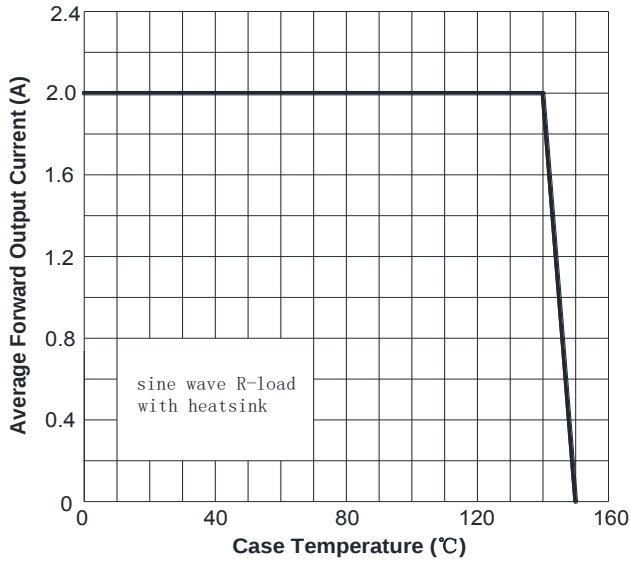


FIG2: Surge Forward Current Capability

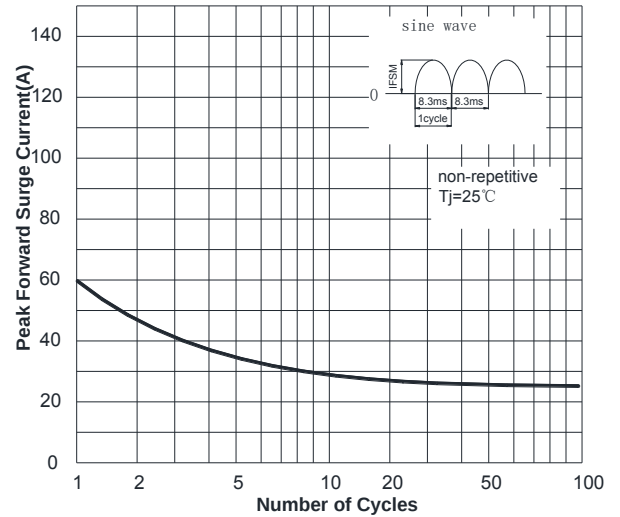


FIG3: Forward Voltage

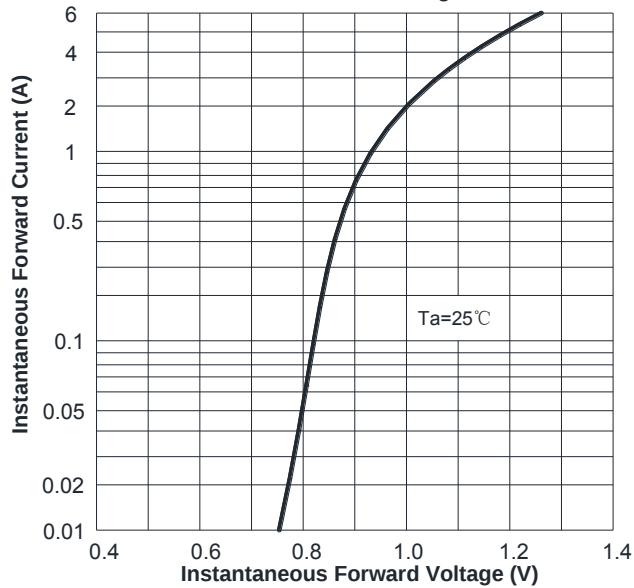
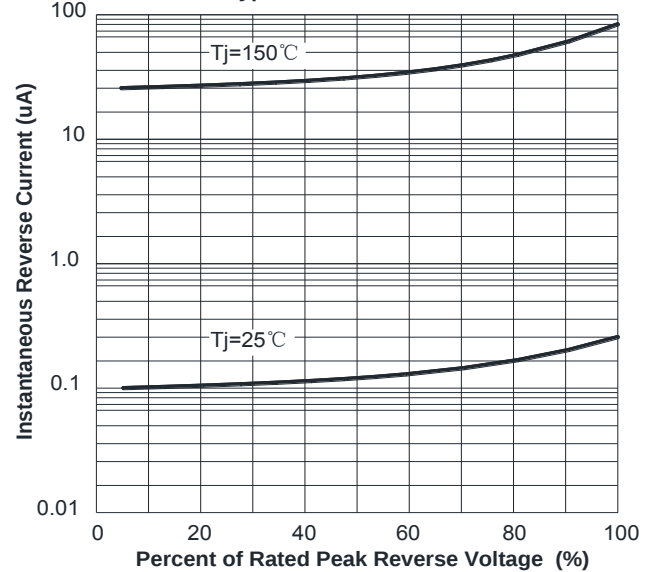
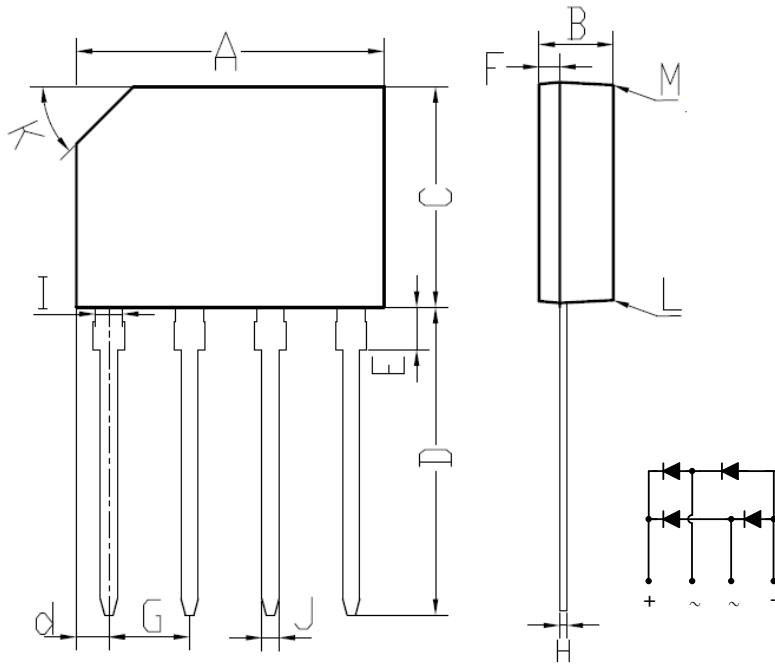


FIG4: Typical Reverse Characteristics



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
GBP2005--GBP210	GBP	500Units/Box