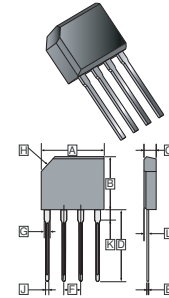


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

GBP

FEATURES

- Surge overload rating – 125 amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.25	14.75	G	1.17	1.42
B	10.20	10.60	H	2.80 x 45°	
C	3.40	3.60	J	0.70	0.86
D	14.50	15.50	K	2.30	2.70
E	0.30	0.60	L	0.70	1.10
F	3.56	4.06			

MAXIMUM RATINGS

($T_A=25^\circ\text{C}$ unless otherwise specified. Single phase, Half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%)

PARAMETER	SYMBOL	PART NUMBERS							UNIT	
		GBP 4005G	GBP 401G	GBP 402G	GBP 404G	GBP 406G	GBP 408G	GBP 410G		
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Bridge Input 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 Rectified Output Current at $T_A=50^\circ\text{C}$ ¹	$I_{(AV)}$	4.0							A	
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	110							A	
Maximum Forward Voltage Drop Per Bridge Element at 4.0A Peak	V_F	1.1							V	
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	$T_J=25^\circ\text{C}$	5							μA
		$T_J=100^\circ\text{C}$	500							μA
I^2t Rating for Fusing ($t<8.3\text{ms}$)	I^2t	50							A^2S	
Typical Junction Capacitance per Element ²	C_J	40							pF	
Typical Thermal Resistance ³	$R_{\theta JC}$	7.5							$^\circ\text{C/W}$	
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150, -55~150							$^\circ\text{C}$	

Note: 1. Mounting condition, 0.5" lead length maximum
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
3. Unit mounted on 75mm x 75mm x 1.6mm copper plate heatsink.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

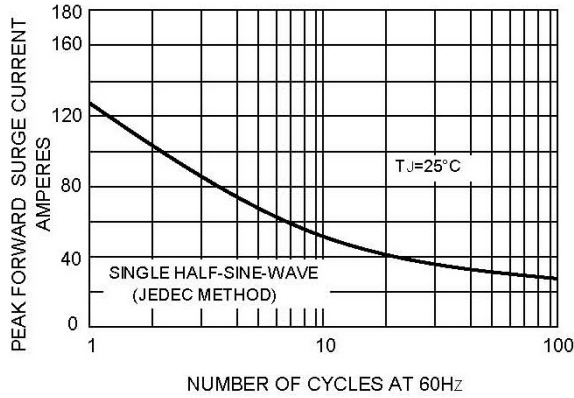


FIG.2-FORWARD DERATING CURRENT

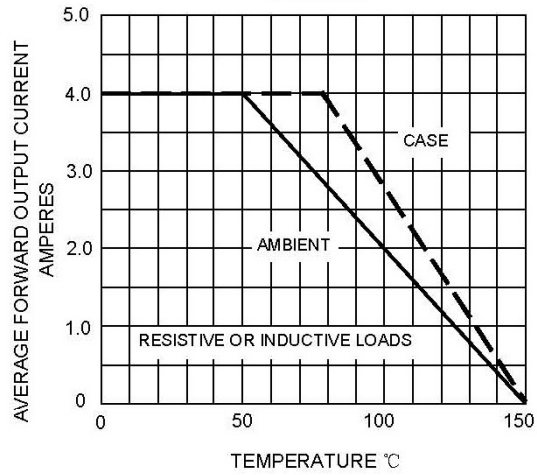


FIG.3-TYPICAL FORWARD CHARACTERISTICS

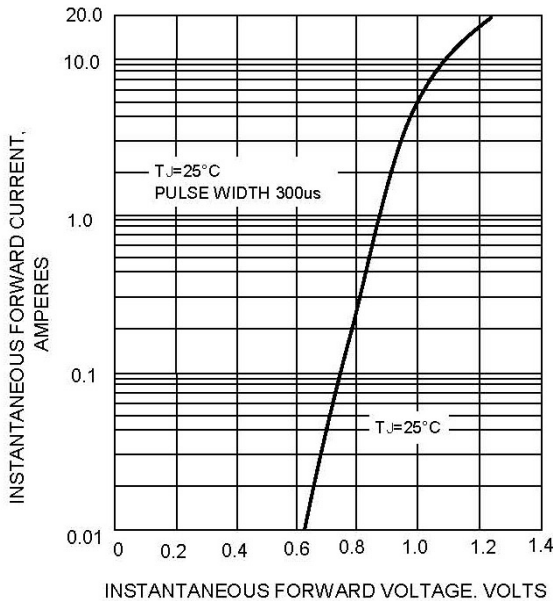


FIG.4-TYPICAL REVERSE CHARACTERISTICS

