

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

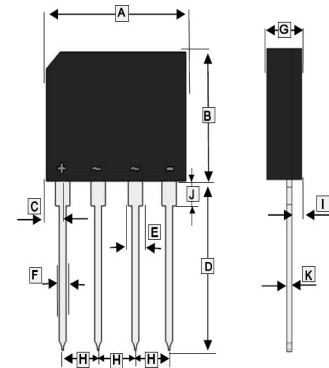
FEATURES

- I_o : 3A
- V_{RRM} : 50~1000V
- Glass passivated chip
- High surge forward current capability

APPLICATIONS

- General purpose 1 phase Bridge rectifier applications

GBP



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.25	14.75	G	3.35	3.65
B	10.1	10.6	H	3.7	3.9
C	1.23	1.83	I	0.8	1.1
D	14.25	14.73	J	1.8	2.2
E	1.22	1.42	K	0.35	0.55
F	0.76	0.86			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		GBP 3005	GBP 301	GBP 302	GBP 304	GBP 306	GBP 308	GBP 310	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ 60Hz sine wave, R-load	Without heatsink $T_C=70^\circ\text{C}$	3.0							A
	With heatsink $T_C=135^\circ\text{C}$								
Surge (Nonrepetitive) Forward Current @ 60Hz sine wave, 1 cycle, $T_J=25^\circ\text{C}$	I_{FSM}	80							A
Current Squared Time ¹	I^2t	26							A ² S
Peak Forward Voltage @ $I_{FM}=1.5\text{A}$, Pulse measurement, Rating of per diode	V_{FM}	1.05							V
Peak Reverse Current @ $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	I_{RRM}	10							μA
Thermal Resistance	$R_{\theta JA}$	47							°C / W
	$R_{\theta JC}$	10							
Junction and Storage temperature range	T_J, T_{STG}	-55~+150							°C

Notes :

1. $1\text{ms} \leq t < 8.3\text{ms}$ $T_J=25^\circ\text{C}$, Rating of per diode

RATINGS AND CHARACTERISTIC CURVES

