Elektronische Bauelemente

GBL2005 ~ GBL210

Voltage 50 V ~ 1000 V

2.0 Amp Glass Passivated Bridge Rectifiers

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

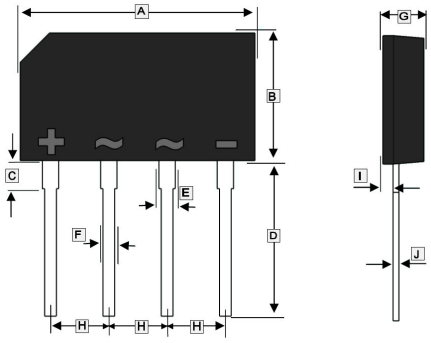
FEATURES

- I_o : 2A
- V_{RRM} : 50~1000V
- Glass passivated chip
- High surge forward current capability

APPLICATIONS

- General purpose 1 phase Bridge rectifier applications

GBL



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	19.2	21.2	F	0.9	1.2
B	10.5	11.5	G	3.0	4.0
C	2.0	3.0	H	4.8	5.3
D	12.7	15.0	I	0.8	1.2
E	1.2	1.8	J	0.3	0.7

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
		GBL 2005	GBL 201	GBL 202	GBL 204	GBL 206	GBL 208	GBL 210	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ 60Hz sine wave, R-load, T_A =25℃	I_O	2.0							A
Surge (Nonrepetitive) Forward Current @ 60Hz sine wave, 1 cycle, T_J=25℃	I_{FSM}	80							A
Current Squared Time [1]	I^2t	26							A^2S
Peak Forward Voltage@ I_{FM}=1.0A, 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							℃ / W
	$R_{\theta JC}$	10							
Junction and Storage temperature range	T_J,T_{STG}	-55~+150							℃

Notes :

1. 1ms≤t<8.3ms T_J=25℃ , Rating of per diode

RATINGS AND CHARACTERISTIC CURVES

FIG1:Io-Ta Curve

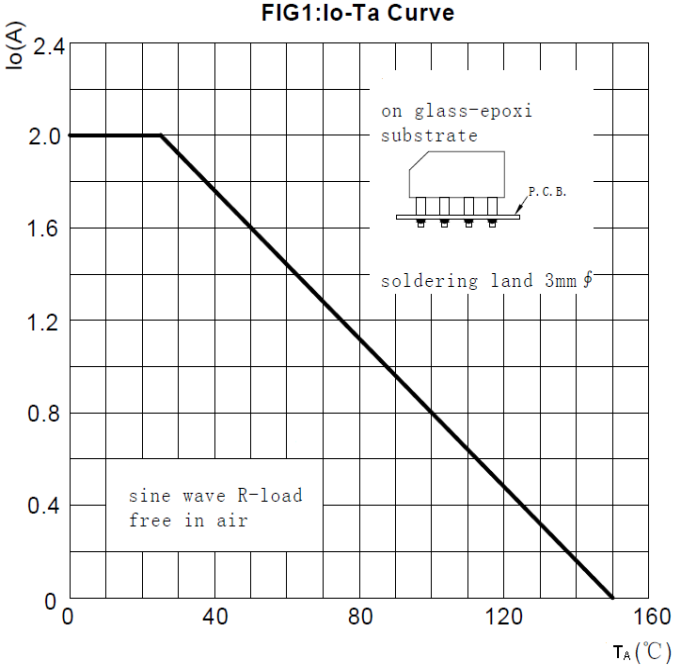


FIG2:Surge Forward Current Capadility

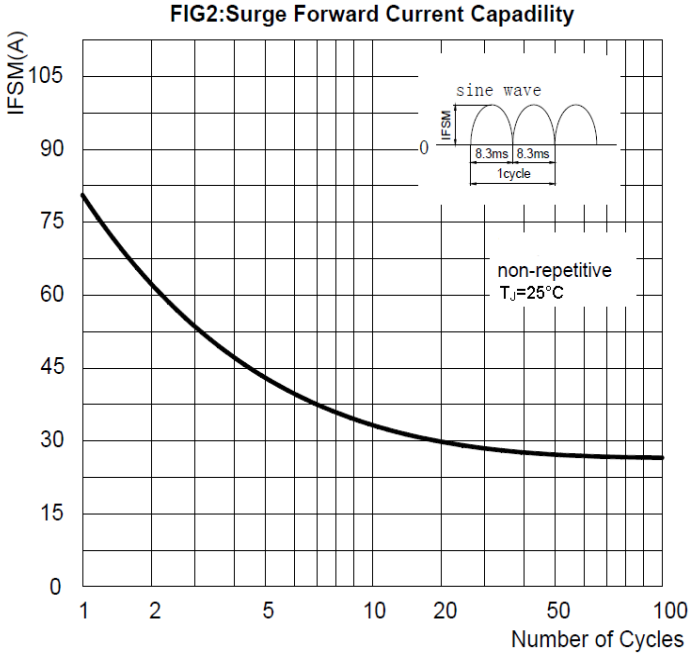


FIG3: Forward Voltage

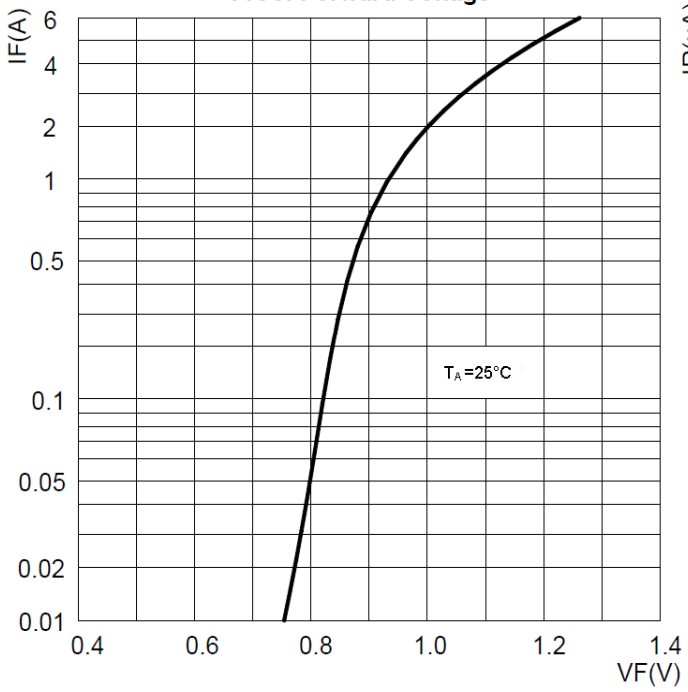


FIG4:Typical Reverse Characteristics

