

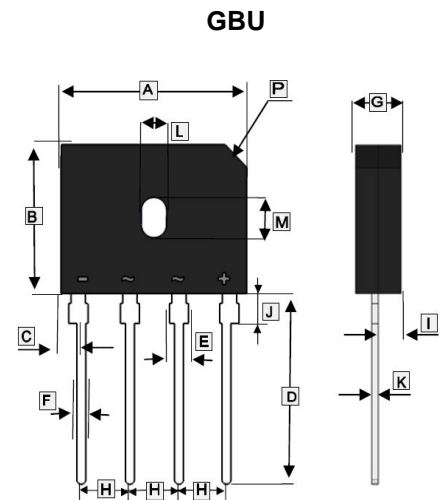
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- I_o : 15A
- V_{RRM} : 50~1000V
- Glass passivated chip
- High surge forward current capability

APPLICATIONS

- General purpose 1 phase Bridge rectifier applications



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	21.7	22.3	H	4.83	5.33
B	18.2	18.8	I	1.8	2.66
C	3°45' TYP.		J	1.8	2.54
D	17.5	18.5	K	0.4	0.6
E	1.8	2.54	L	3.5	4.1
F	0.9	1.27	M	5.7 TYP.	
G	3.3	3.8			

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
		GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ 60Hz sine wave, R-load	With heatsink $T_C=100^\circ\text{C}$	15							A
	Without heatsink $T_A=25^\circ\text{C}$	3.2							
Surge (Nonrepetitive) Forward Current @ 60Hz sine wave, 1 cycle, $T_J=25^\circ\text{C}$	I_{FSM}	200							A
Current Squared Time ¹	I^2t	166							A ² S
Dielectric Strength @ Terminals to case , AC 1 minute	V_{DIS}	2							KV
Mounting Torque @ Recommend torque : 5kg.cm	Tor	8							Kg.cm
Peak Forward Voltage @ $I_{FM}=7.5\text{A}$, Pulse measurement, Rating of per diode	V_{FM}	1.1							V
Peak Reverse Current @ $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	I_{RRM}	10							μA
Thermal Resistance	Without heatsink	23							$^\circ\text{C} / \text{W}$
	With heatsink	1.8							
Junction and Storage temperature range	T_J, T_{STG}	-55~+150							$^\circ\text{C}$

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

FIG1: I_o-T_c Curve

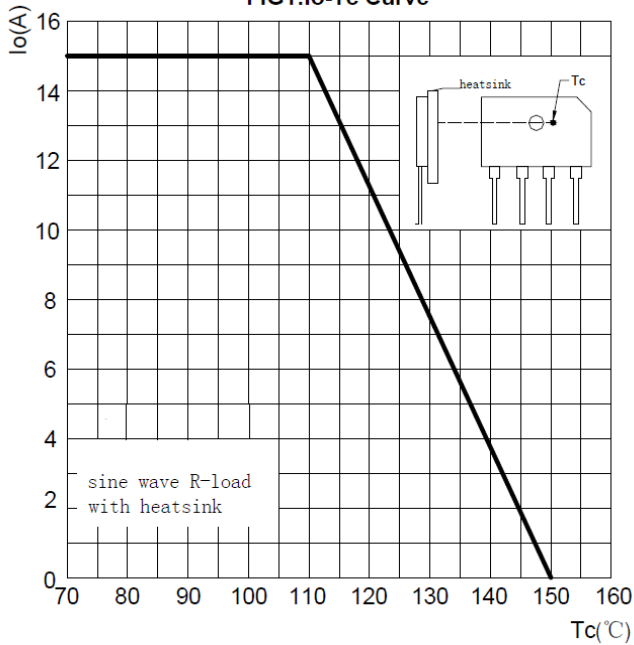


FIG2: Surge Forward Current Capacity

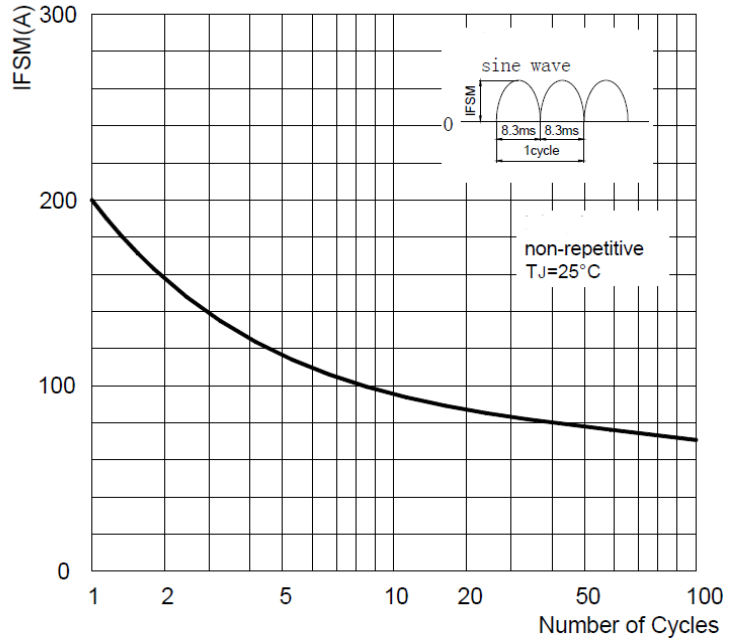


FIG3: Forward Voltage

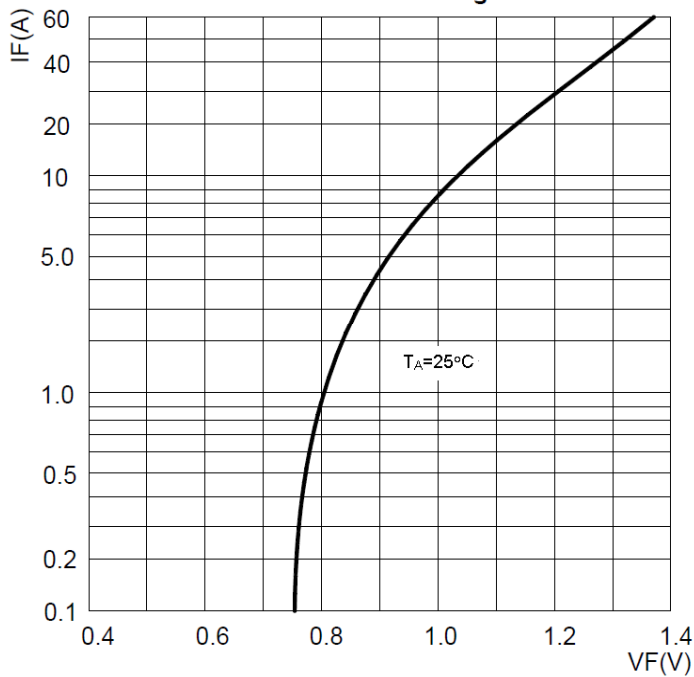


FIG4: Typical Reverse Characteristics

