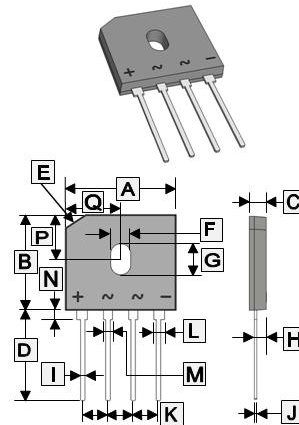


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Surge overload rating -240 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory flammability classification 94V-0
- Mounting position: Any

GBU



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	21.80	22.20	I	0.9	1.2
B	18.30	19.10	J	0.46	0.56
C	3.37	3.53	K	4.80	5.30
D	17.27	18.29	L	2.16	2.54
E	3.2 x 45°		M	1.65	2.03
F	3.40	4.10	N	1.45	1.85
G	5.40	5.90	P	9.80	10.20
H	2.30	2.70	Q	10.90	11.10

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	
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heat sink ²)	$I_{(AV)}$	15							A	
Rectified Current @ $T_C=100^\circ\text{C}$ (without heat sink)		3.2								
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	240							A	
Maximum Forward Voltage @ 7.5A	V_F	1.1							V	
Maximum Reverse Current at Rated DC Blocking Voltage	$T_J=25^\circ\text{C}$	10							I_R	μA
	$T_J=125^\circ\text{C}$									
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	200							A^2s	
Typical Junction Capacitance Per Element ¹	C_J	70							pF	
Typical Thermal Resistance	$R_{\theta JC}$	2.2							$^\circ\text{C}/\text{W}$	
Operating and Storage temperature range	T_J, T_{STG}	-55~150							$^\circ\text{C}$	

Notes :

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 100mm*100mm*1.6mm Cu plate heat sink.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

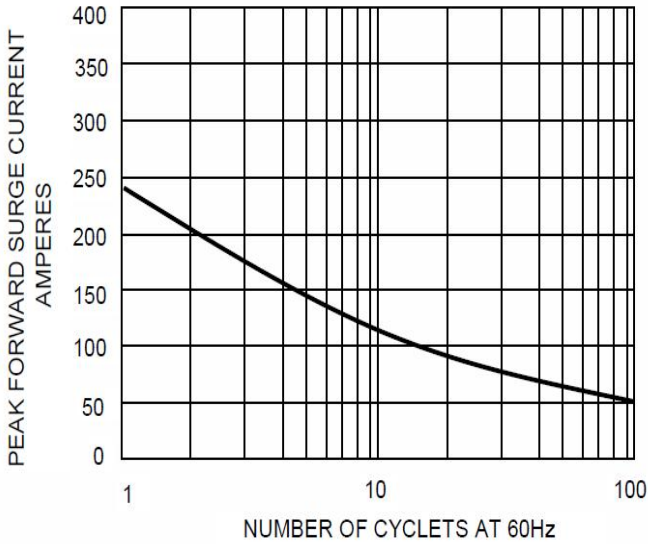


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

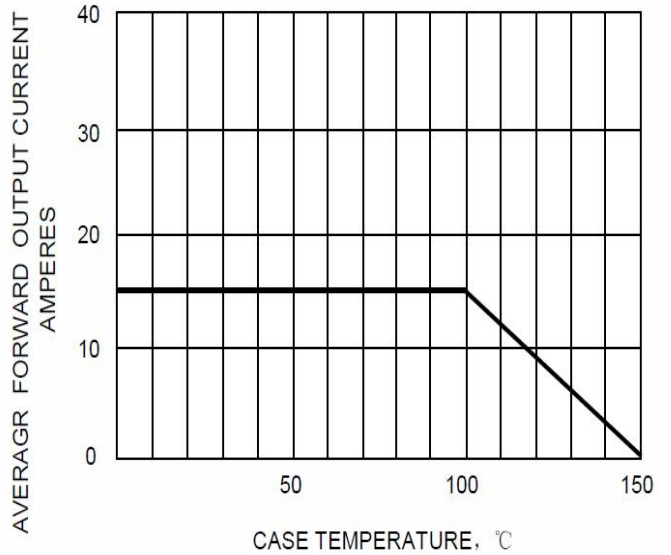


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

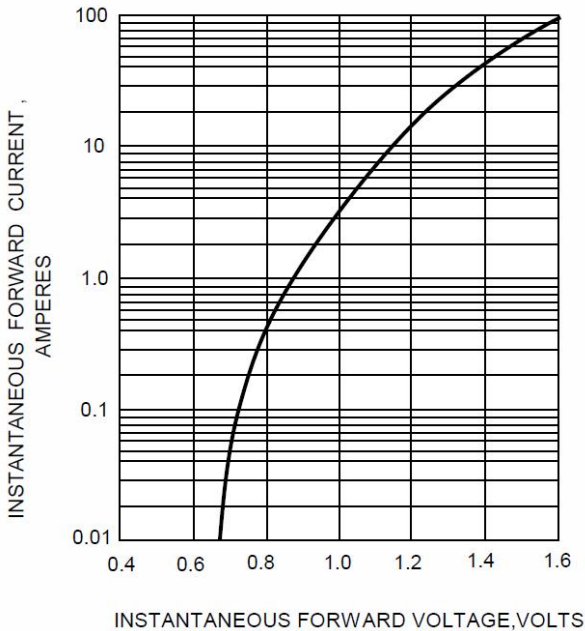


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

