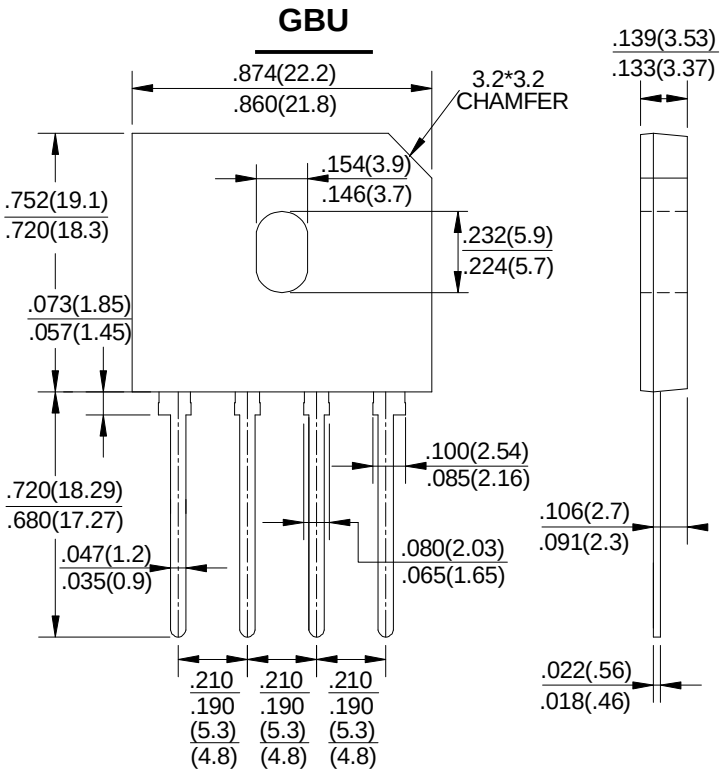
GLASS PASSIVATED

LOW VF BRIDGE RECTIFIERS

Features:

- ●Surge overload rating -220~350 amperes peak
- ●Ideal for printed circuit board
- ●Reliable low cost construction utilizing molded plastic technique
- ●Plastic material has U/L flammability classification 94V-0
- ●Mounting postition:Any



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBU 10AL 15005L 25005L	GBU 10BL 1501L 2501L	GBU 10DL 1502L 2502L	GBU 10GL 1504L 2504L	GBU 10JL 1506L 2506L	GBU 10KL 1508L 2508L	GBU 10ML 1510L 2510L	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ Tc=100℃ (without heatsink)	$I_{(AV)}$	GBU 10	10 3.0	GBU 15	15 3.2	GBU 25	25 4.2		A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}		250		300		350		A
Maximum Forward Voltage at 5.0/7.5/12.5A DC	V_F	0.92							V
Maximum DC Reverse Current @ T_J=25℃ at Rated DC Blocking Voltage @ T_J=125℃	I_R	5.0 200							uA
I^2t Rating for Fusing (t<8.3ms)	I^2t	250							A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	70							pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	2.2							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 100mm*100mm*1.6mm cu plate heatsink.

FIG.1-MAXIMUM FORWARD SURGE CURRENT

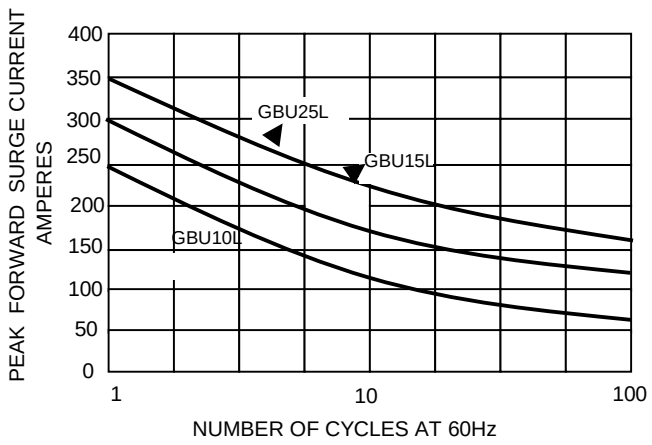


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

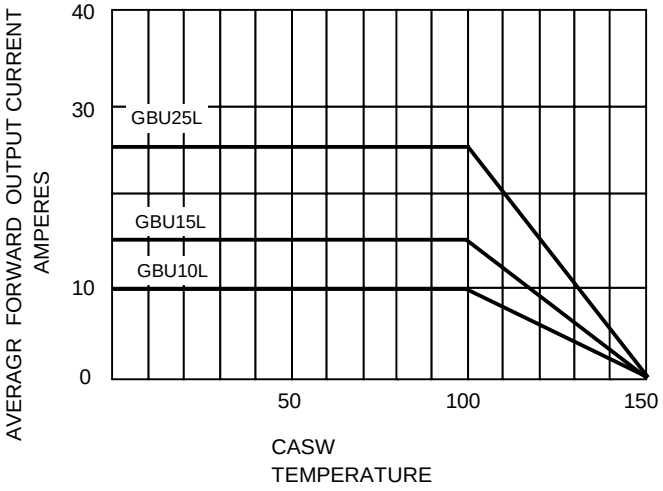


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

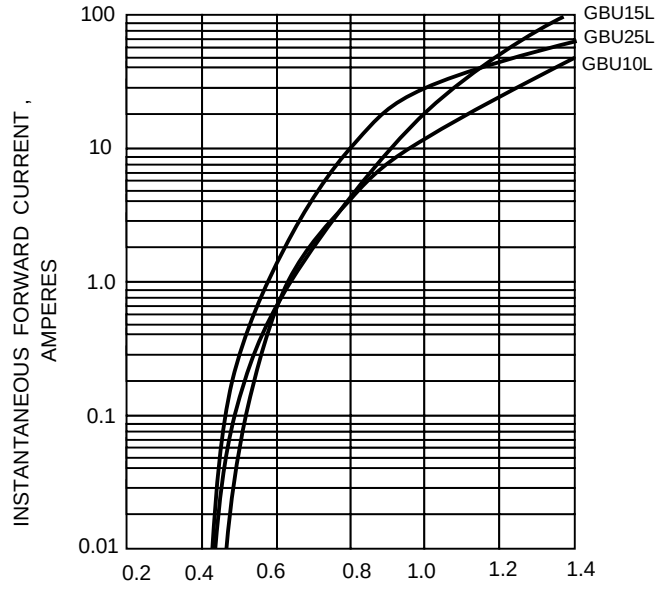


FIG.4-TYPICAL REVERSE
CHARACTERISTICS