

Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:15.0A,GBU package.

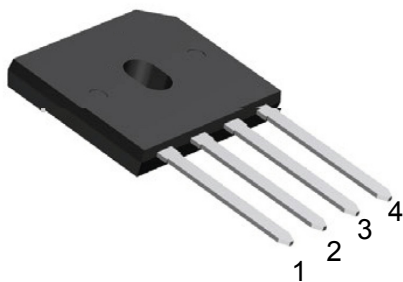
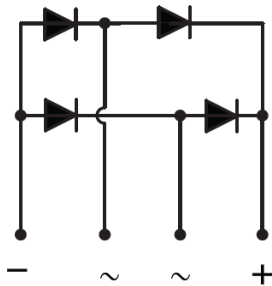
PCB

UL

94V-0

Ideal for printed circuit board, Case material molded plastic, The plastic material has U/L flammability classification 94V-0. Halogen free product.

General purpose.



PIN1 DC- PIN2 AC PIN 3 AC PIN 4 DC+

See Marking Instructions

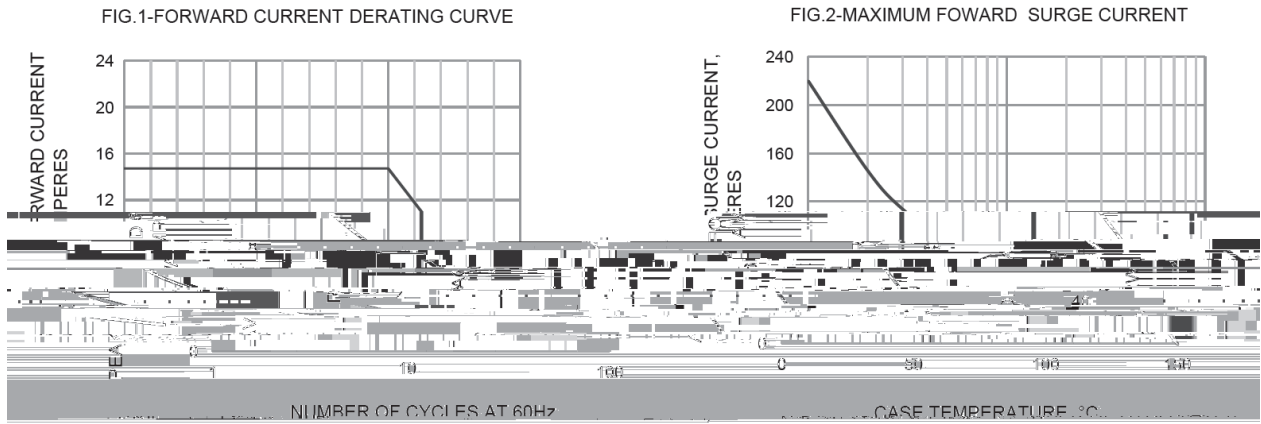
Parameter	Symbol	Rating							Unit
		GBU 15005	GBU 1501	GBU 1502	GBU 1504	GBU 1506	GBU 1508	GBU 1510	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current(with heatsink Note 2)	$I_{F(AV)}$	15							A
Maximum Average Forward Rectified Current @ $T_C=100^{\circ}C$ (without heatsink)		3.2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	220							A
I^2t Rating for Fusing ($t<8.3ms$)	I^2t	200							A^2s
Typical Junction Capacitance Per Element (Note1)	C_J	86							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	2.0							$^{\circ}C/W$
Operating Temperature Range	T_j	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 to +150							$^{\circ}C$

NOTE:

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

2.Device mounted on 150mm*150mm*1.6mm Cu Plate Heatsink.

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	V_F	$I_F=7.5A$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^{\circ}C$	5.0	μA
		$T_a=125^{\circ}C$	500	



FORWARD CHARACTERISTICS

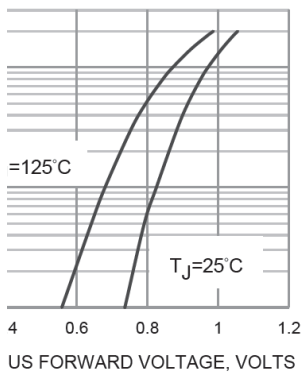


FIG.3-TYPICAL JUNCTION CAPACITANCE

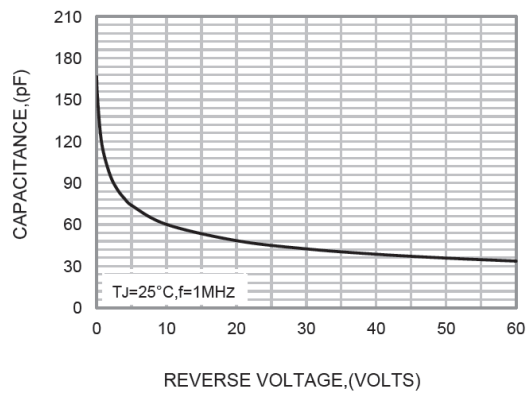


FIG.4-TYPICAL FO

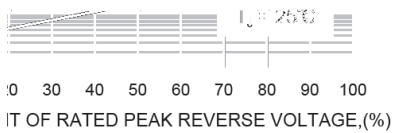
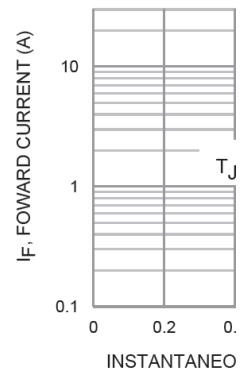
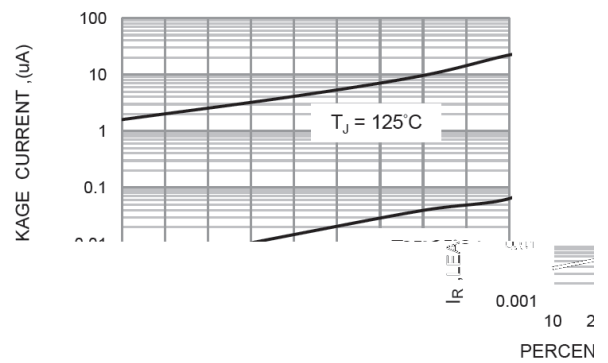
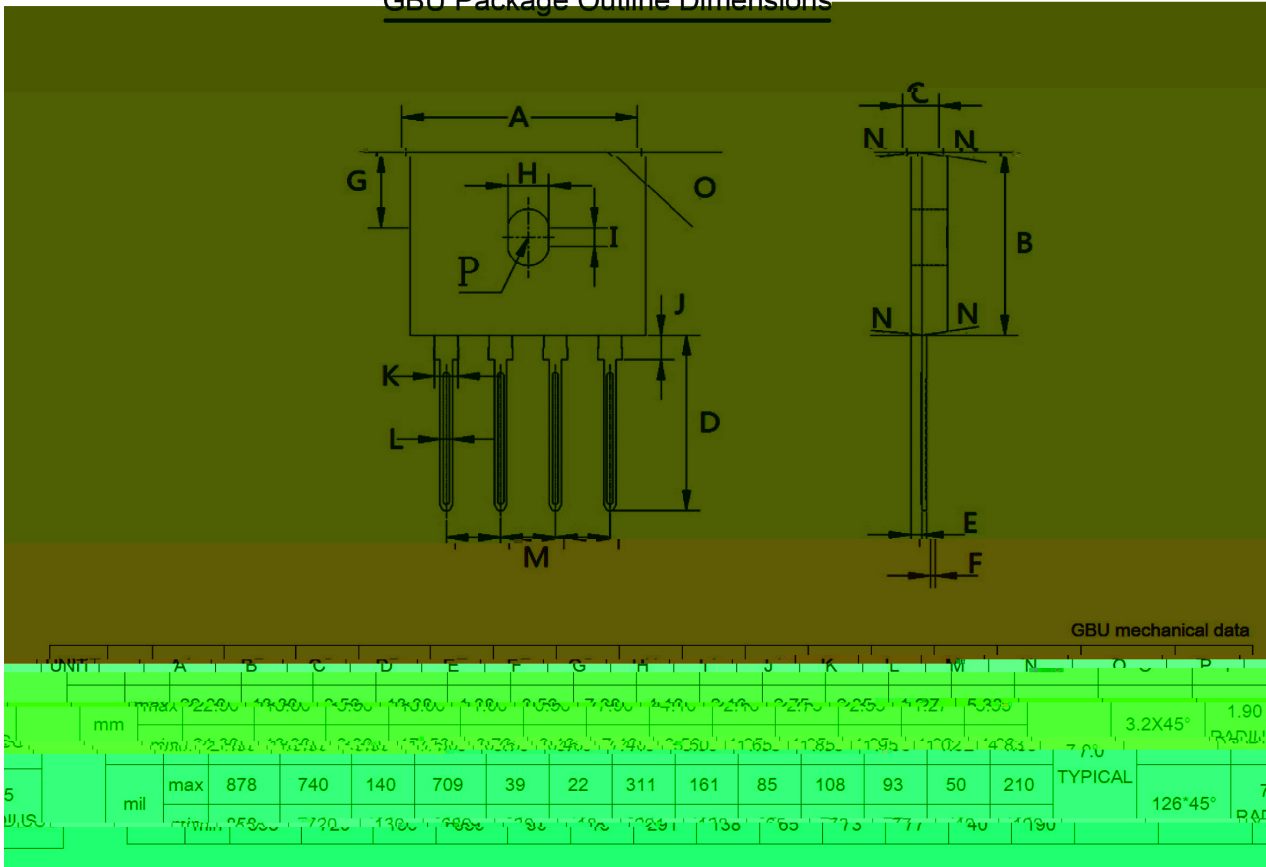
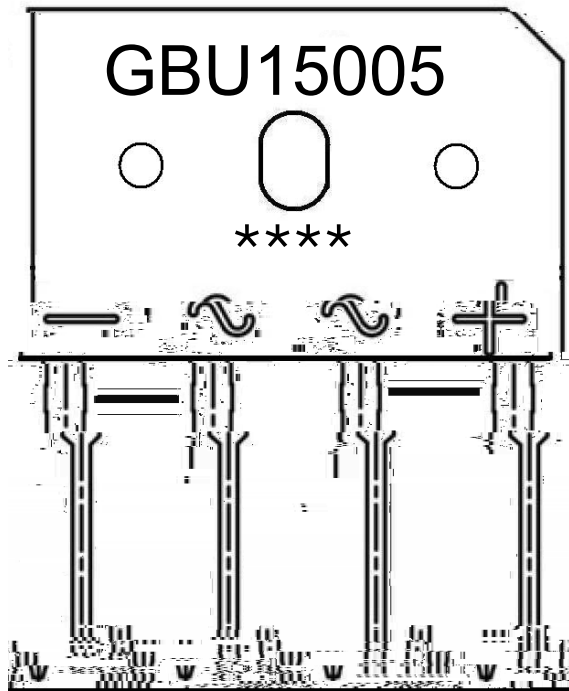


FIG.5-TYPICAL REVERSE CHARACTERISTICS



GBU Package Outline Dimensions





GBU15005: Product Type.
****: Lot No. Code, code change with Lot No.



- | | | | | | | |
|---|-----|-----|----|---------|-------|---|
| 1 | 25 | 150 | 60 | 90sec; | Note: | 1.Preheating:25~150 , Time:60~90sec. |
| 2 | 255 | 5 | 5 | 0.5sec; | | 2.Peak Temp.:255 5 , Duration:5 0.5sec. |
| 3 | | 2 | 10 | /sec. | | 3. Cooling Speed: 2~10 /sec. |

270 5 10 1 sec. Temp.:270±5°C Time:10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: cm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
GBU	-	-	350	10	3500	-	314×106×39	330×242×237