

/ Descriptions

50~1000V

8.0A GBU

Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:8.0A,GBU package.

/ Features

PCB

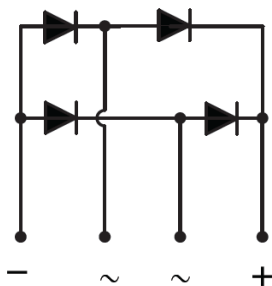
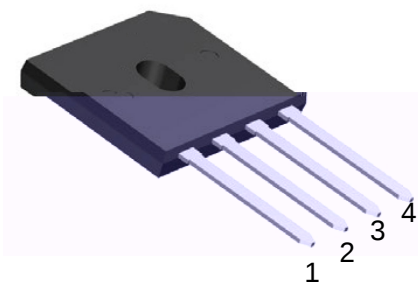
UL

94V-0

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

/ Applications

General purpose.

/ Equivalent Circuit**/ Pinning**

PIN1 DC- PIN2 AC PIN3 AC PIN4 DC+

/ h_{FE} Classifications & Marking

See Marking Instructions

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		GBU 8005G	GBU 801G	GBU 802G	GBU 804G	GBU 806G	GBU 808G	GBU 810G	
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)	$I_{F(AV)}$	8							A
Maximum Average Forward Rectified Current @T _C =100 (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 ² t Rating for Fusing (t<8.3ms)	I^2t	166							A ² s
Typical Junction Capacitance Per Element(Note1)	CJ	86							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	1.6							/W
Operating Temperature Range	T _j	-55 to +150							
Storage Temperature Range	T _{stg}	-55 to +150							

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.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	V_F	$I_F=4.0A$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T _a =25	5.0	μA
		T _a =125	500	

/ Electrical Characteristic Curve

FIG.1-FORWARD CURRENT DERATING CURVE

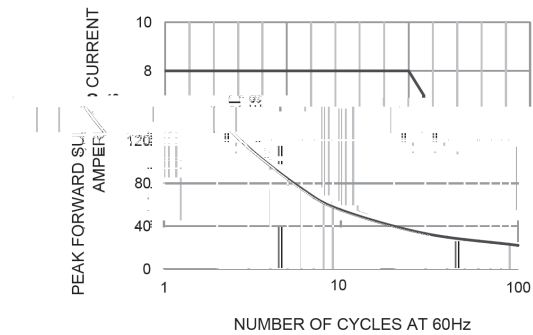


FIG.2-MAXIMUM FOWARD SURGE CURRENT

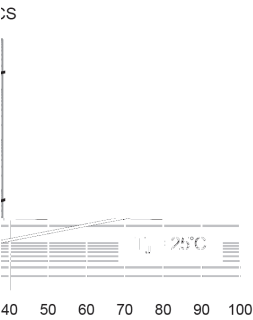
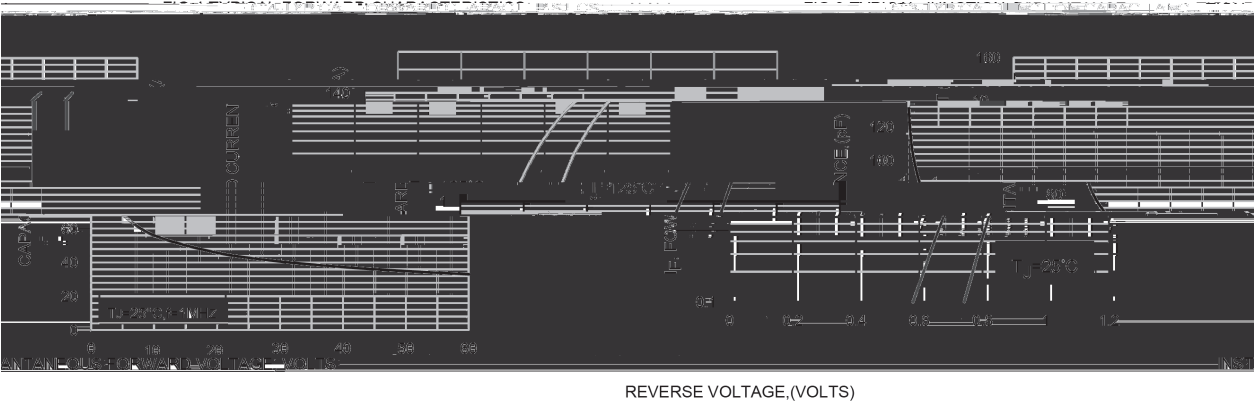
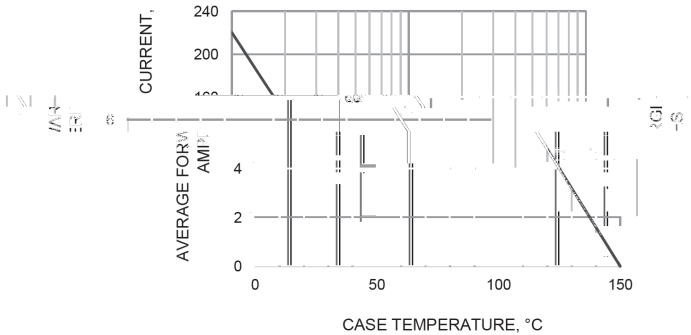
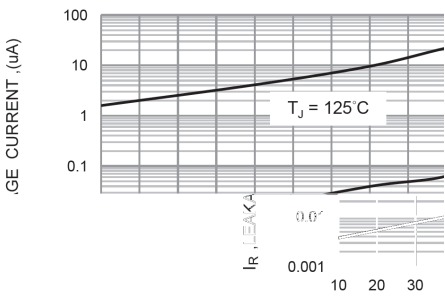
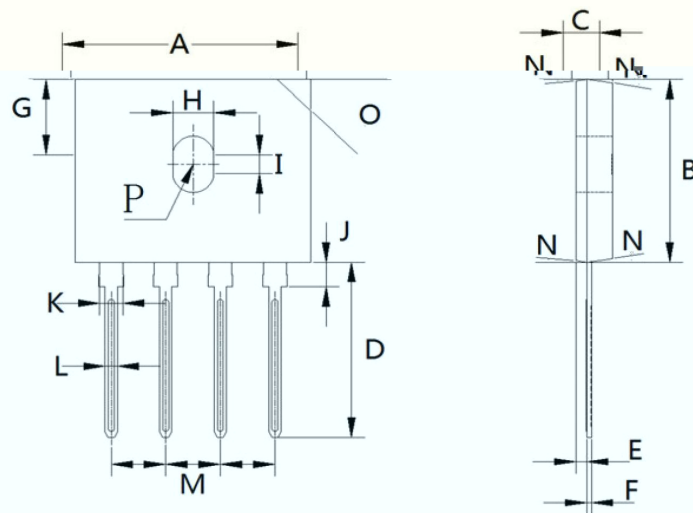


FIG.5-TYPICAL REVERSE CHARACTERISTIC



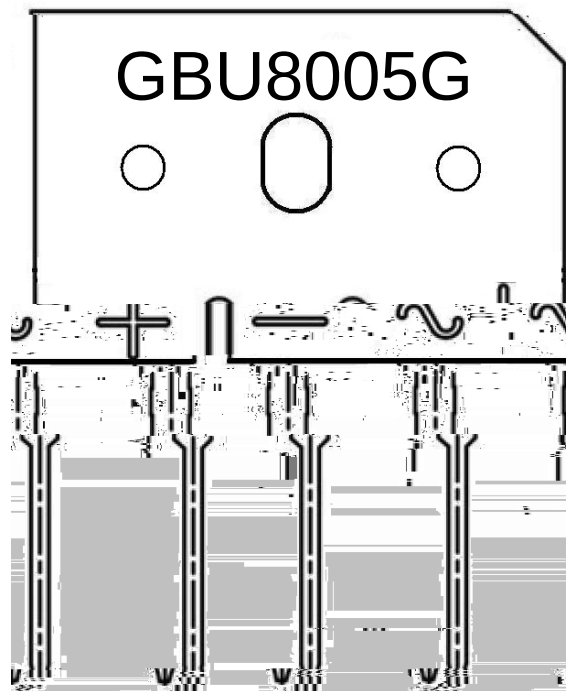
/ Package Dimensions

GBU Package Outline Dimensions



GBU mechanical data																
UNIT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
mm	max 22.20	19.30	2.50	19.00	1.00	0.50	3.00	4.00	2.00	2.20	2.20	2.20	1.22	5.30	3.2X45°	1.90
mil	max 878	764	100	748	39	22	120	160	80	88	88	88	48	210	TYPICAL	75
RADIUS																126°45°

/ Marking Instructions



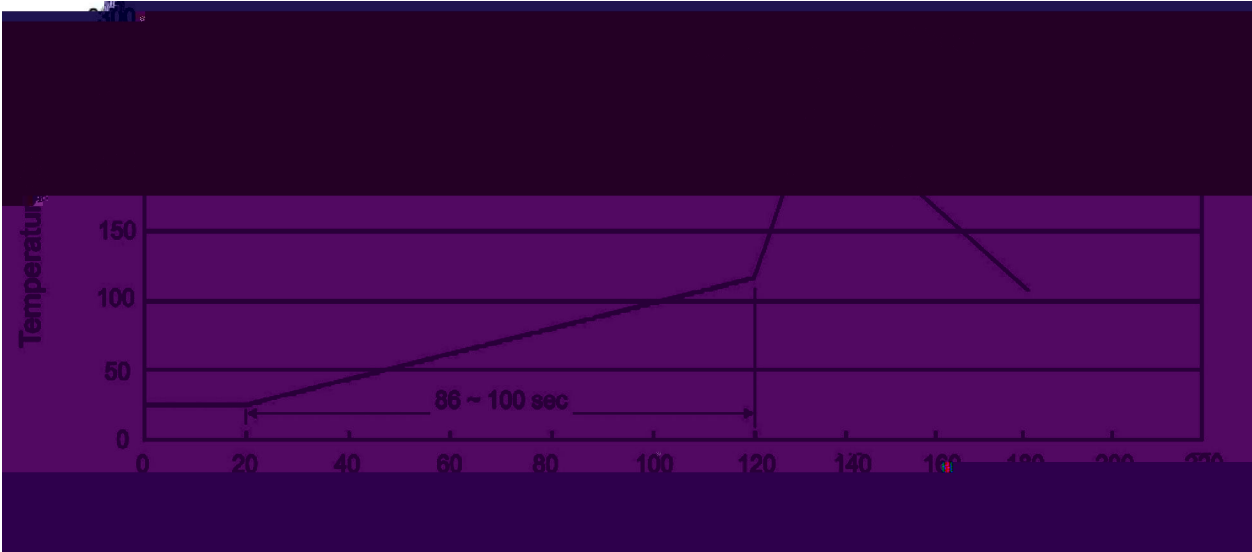
GBU8005G

Note:

GBU8005G: Product Type.

****: Lot No. Code, code change with Lot No.

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- 1

25 150

60 90sec;
- 2

255±5

5±0.5sec;
- 3

2 10 /sec.
- 1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ BULK

Package Type	Units					Dimension		(unit mm ³)
							x x	x x

/ Notices