

50~1000V 10.0A GBU

Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:10.0A,GBU package.

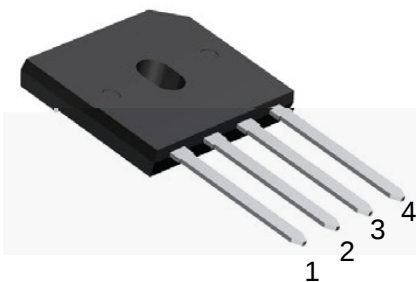
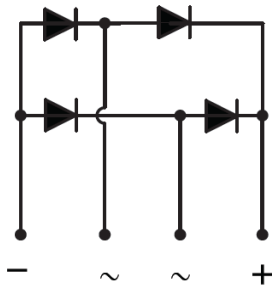
PCB

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 10005	GBU 1001	GBU 1002	GBU 1004	GBU 1006	GBU 1008	GBU 1010	
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)	$I_{F(AV)}$	10.0							A
Maximum Average Forward Rectified Current @ $T_C=100$ (without heatsink)		3.0							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 ² s
Typical Junction Capacitance Per Element (Note1)	CJ	86							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	2.0							/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.

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

FIG.1-FORWARD CURRENT DERATING CURVE

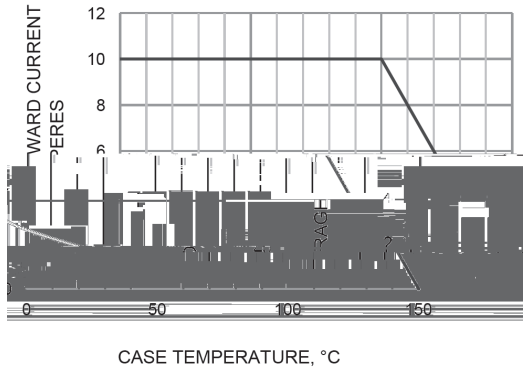


FIG.2-MAXIMUM FORWARD SURGE CURRENT

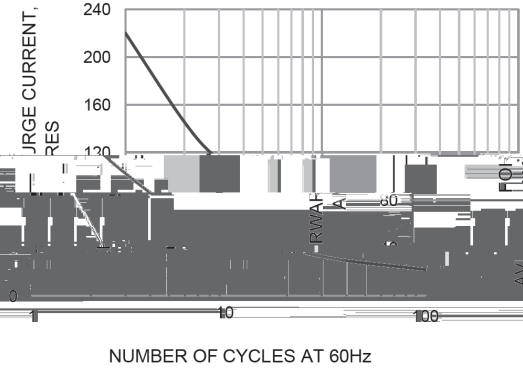


FIG.3-TYPICAL JUNCTION CAPACITANCE

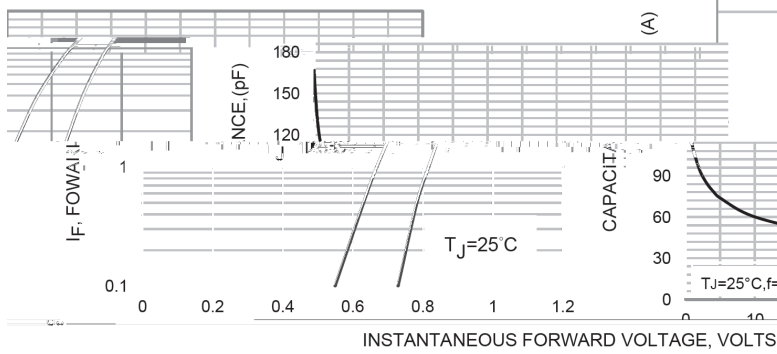


FIG.4-TYPICAL FORWARD CHARACTERISTICS

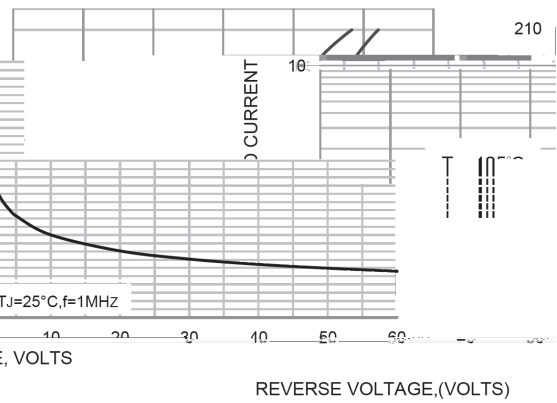
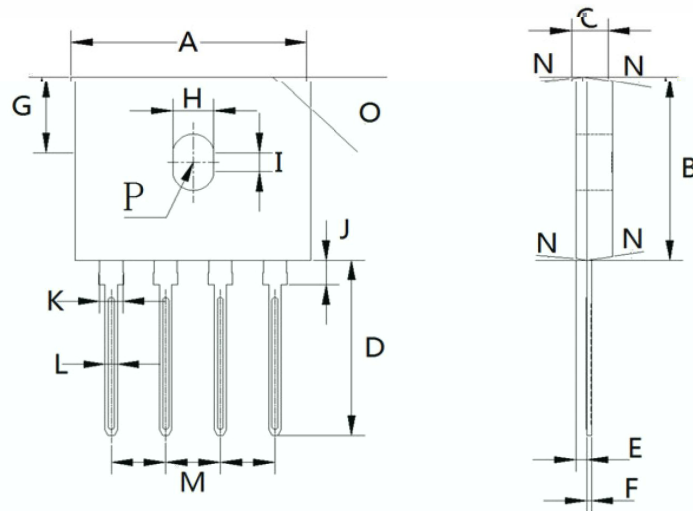


FIG.5-TYPICAL REVERSE CHARACTERISTICS

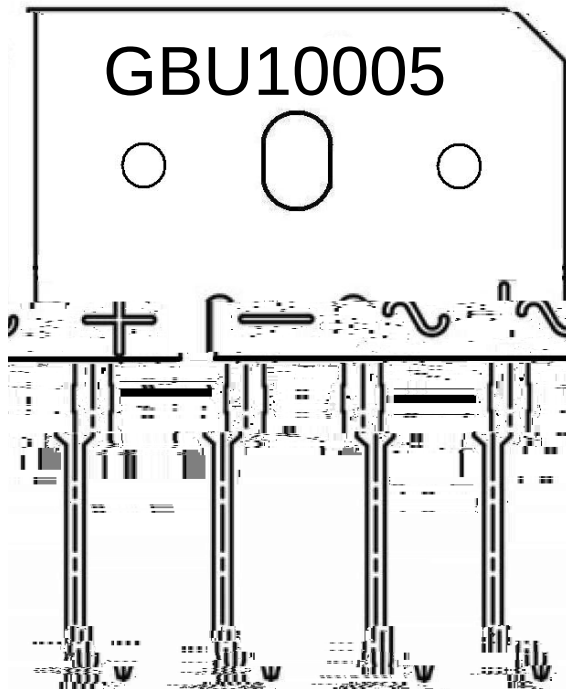


GBU Package Outline Dimensions



GBU mechanical data

UNIT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
mm	max 22.50	10.00	6.50	10.00	1.50	0.75	0.46	7.40	3.51	1.35	1.35	1.35	1.35	1.35	3.2X45°	1.90
min	21.30	9.30	6.30	9.50	1.30	0.70	0.40	7.00	3.10	1.30	1.30	1.30	1.30	1.30	7.00	1.80
mil	max 878	740	140	709	39	22	311	161	85	108	93	50	210	TYPICAL	126°45°	75
min	850	700	130	680	35	20	291	156	80	105	90	48	200	6.00	120°45°	70

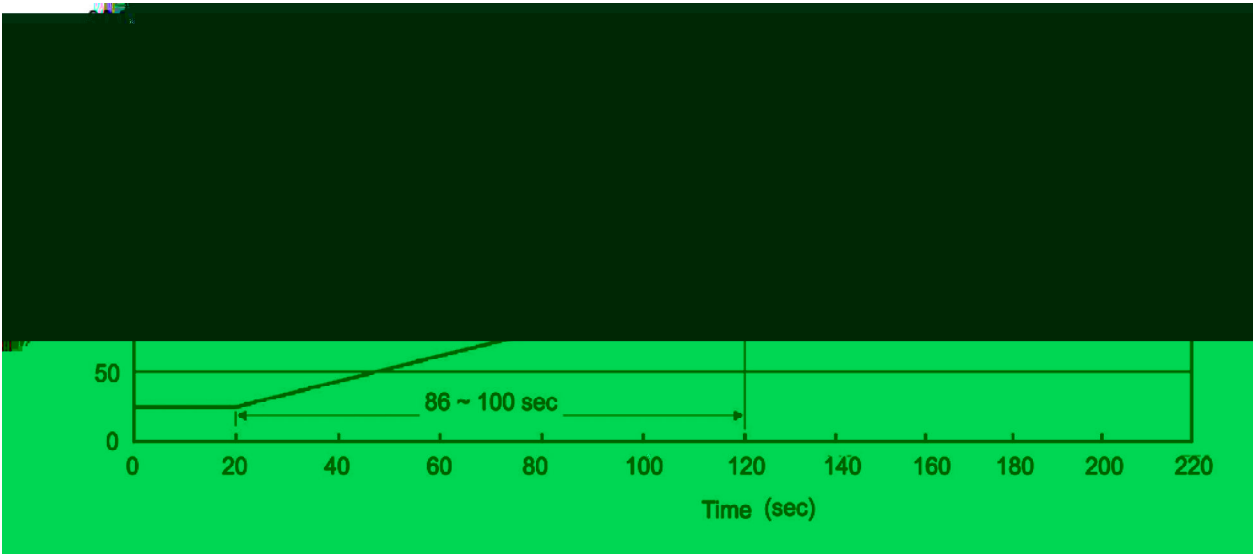


GBU10005

Note:

GBU10005: Product Type.

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



- 1

25 150

60 90sec;

2

255±5

5±0.5sec;

3

2 10 /sec.
- Note:

1.Preheating:25~150 , Time:60~90sec.

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

3. Cooling Speed: 2~10 /sec.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

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