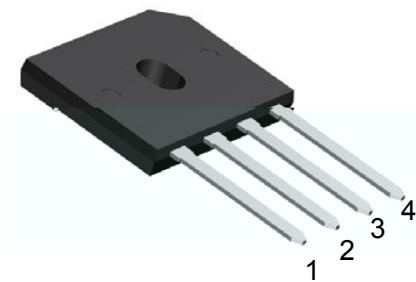
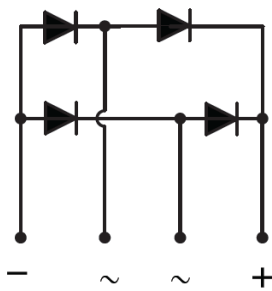


Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:4.0A,GBU package.

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

General purpose.



PIN1	DC-	PIN2	AC	PIN 3	AC	PIN 4	DC+
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See Marking Instructions

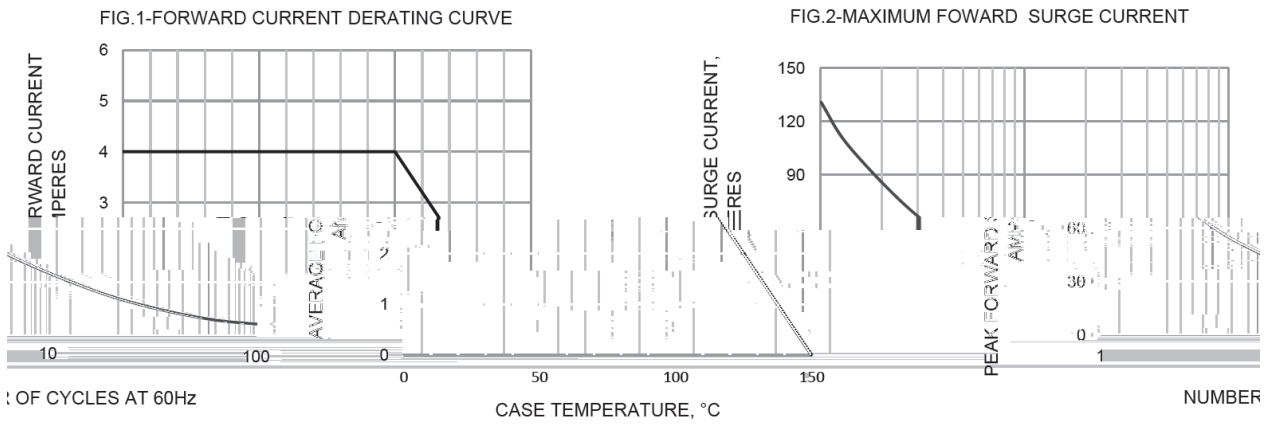
Parameter	Symbol	Rating							Unit
		GBU 4005	GBU 401	GBU 402	GBU 404	GBU 406	GBU 408	GBU 410	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current(with heatsink Note 2)	$I_{F(AV)}$	4							A
Maximum Average Forward Rectified Current @ $T_C=100$ (without heatsink)		2.4							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	135							A
I^2t Rating for Fusing ($t<8.3ms$)	I^2t	75							A ² s
Typical Junction Capacitance Per Element (Note1)	C_J	35							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	5.5							/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	$I_F=2.0A$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	5.0	μA
		$T_a=125$	500	



FORWARD CHARACTERISTICS

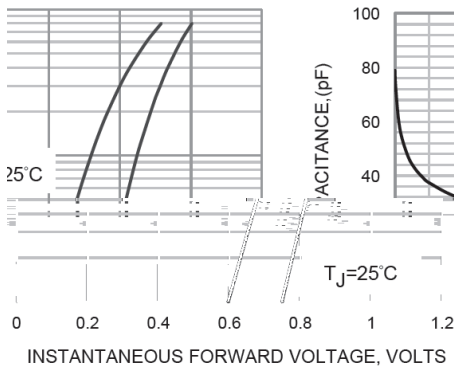


FIG.3-TYPICAL JUNCTION CAPACITANCE

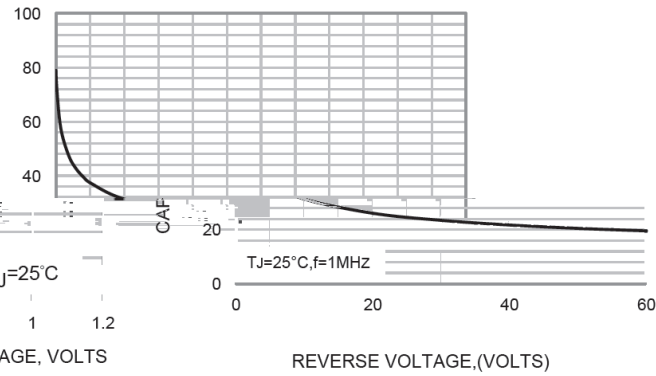
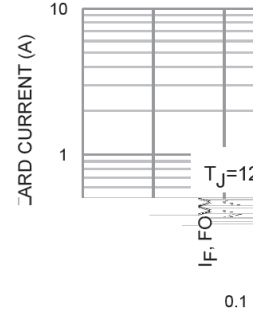


FIG.4-TYPICAL FORWARD CHARACTERISTICS



REVERSE CHARACTERISTICS

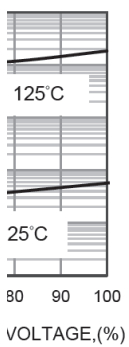
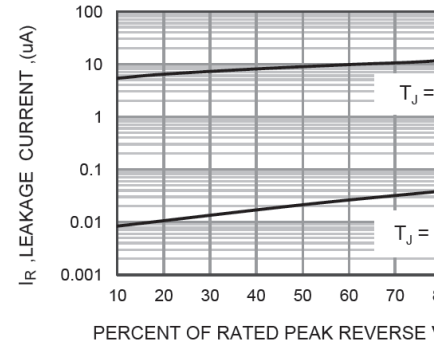
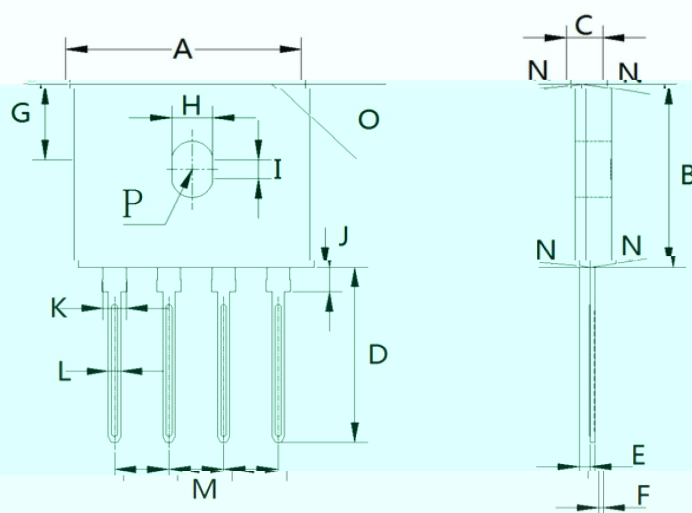


FIG.5-TYPICAL REVERSE CHARACTERISTICS

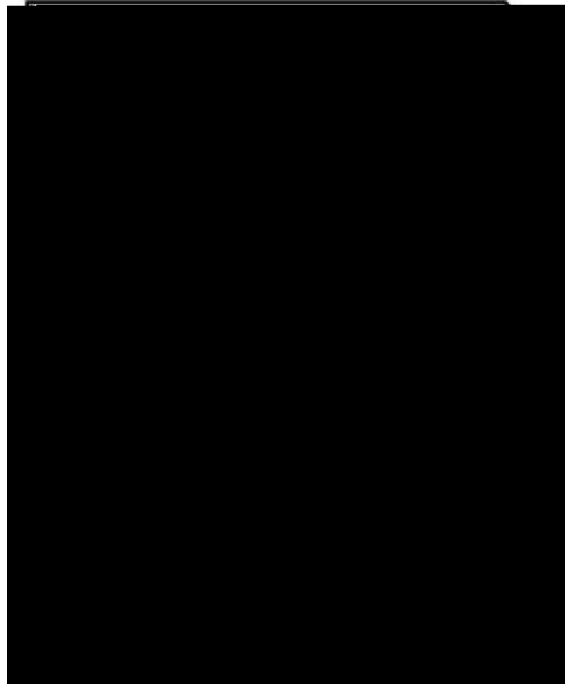


GBU Package Outline Dimensions



GBU mechanical data

UNIT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
mm	max 22.20	17.00	7.50	17.00	7.00	7.50	7.00	4.00	2.70	2.70	2.50	7.20	5.30		3.2X45°	1.90
	min 22.20	17.00	7.50	17.00	7.00	7.50	7.00	4.00	2.70	2.70	2.50	7.20	5.30		3.2X45°	1.90
mil	max 878	740	140	709	39	22	311	161	85	108	93	50	210	TYPICAL	126°45°	75
	min 878	740	140	709	39	22	311	161	85	108	93	50	210	TYPICAL	126°45°	75

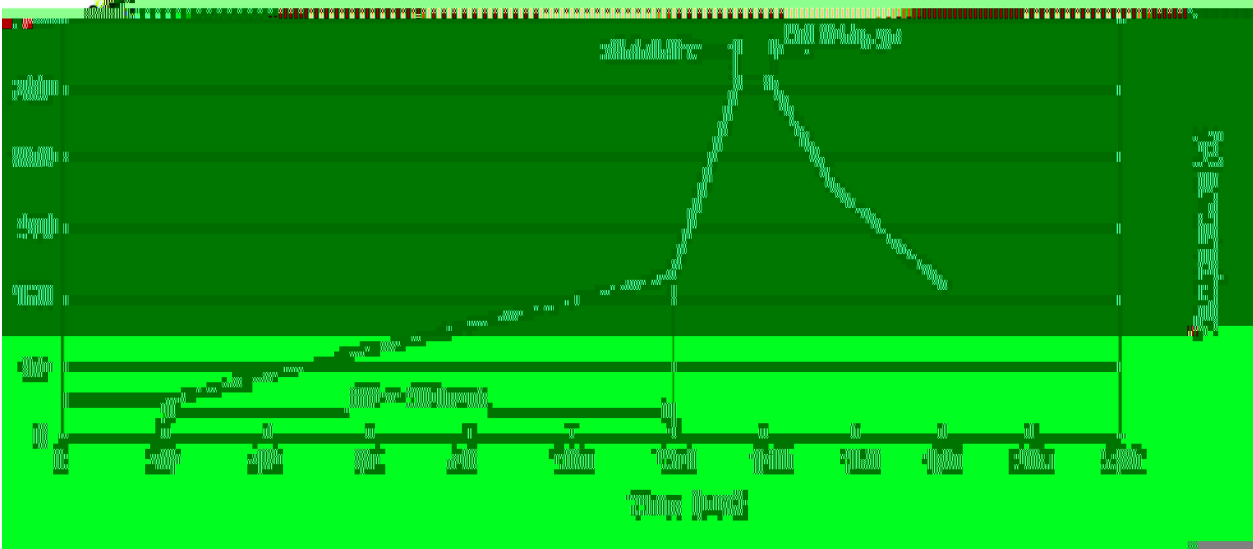


GBU4005:

****.

Product Type.

Lot No. Code, code change with Lot No.



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.

270 5

10 1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
GBU	-	-	350	10	3500	-	314×106×39	330×242×237