

# GBU8005~GBU810

Rev.B May.-2025

## / Descriptions

8.0A Single-Phase Silicon Bridge Rectifier, Reverse Voltage:50~1000V,GBU package.

## / Features

PCB

UL

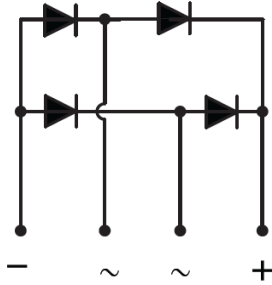
94V-0

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

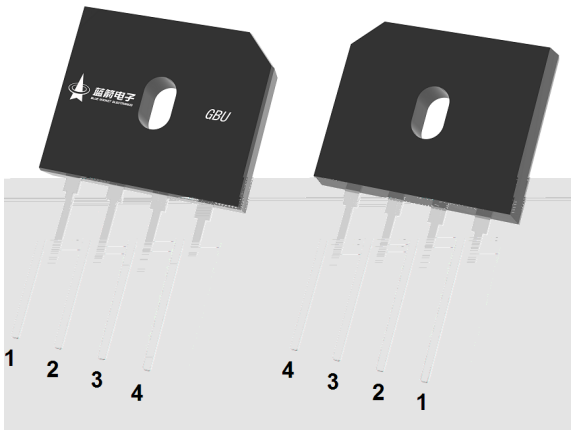
## / Applications

General purpose.

## / Equivalent Circuit



## / Pinning



PIN1 DC- PIN2 AC PIN3 AC PIN4 DC+

## / Marking

See Marking Instructions.

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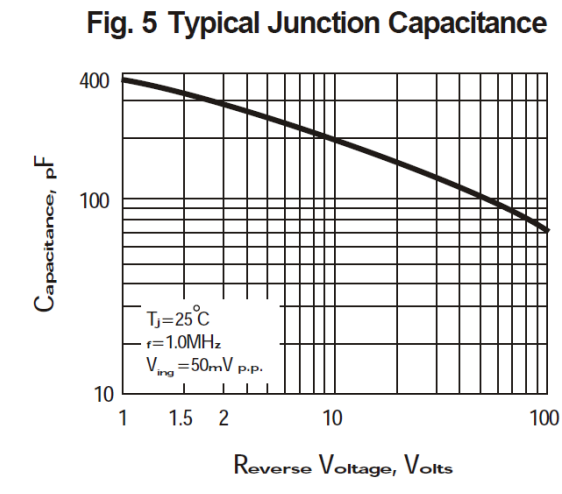
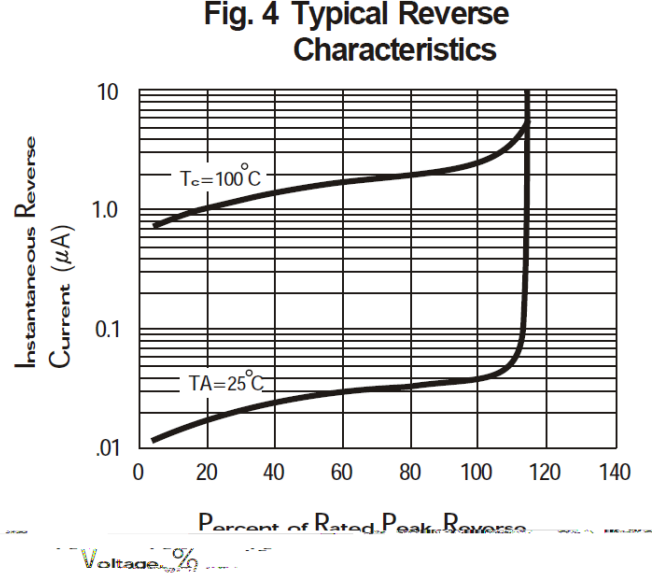
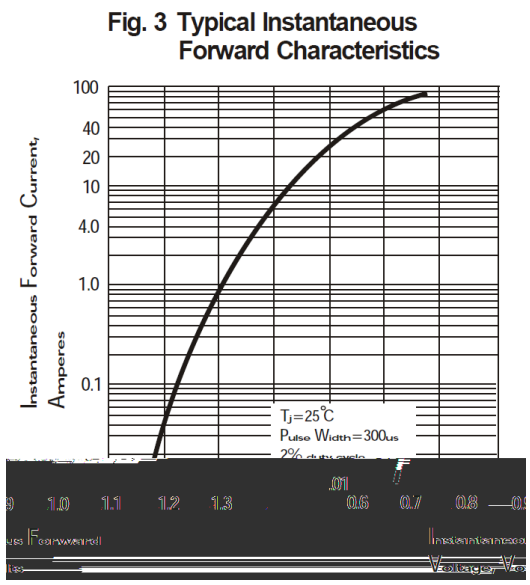
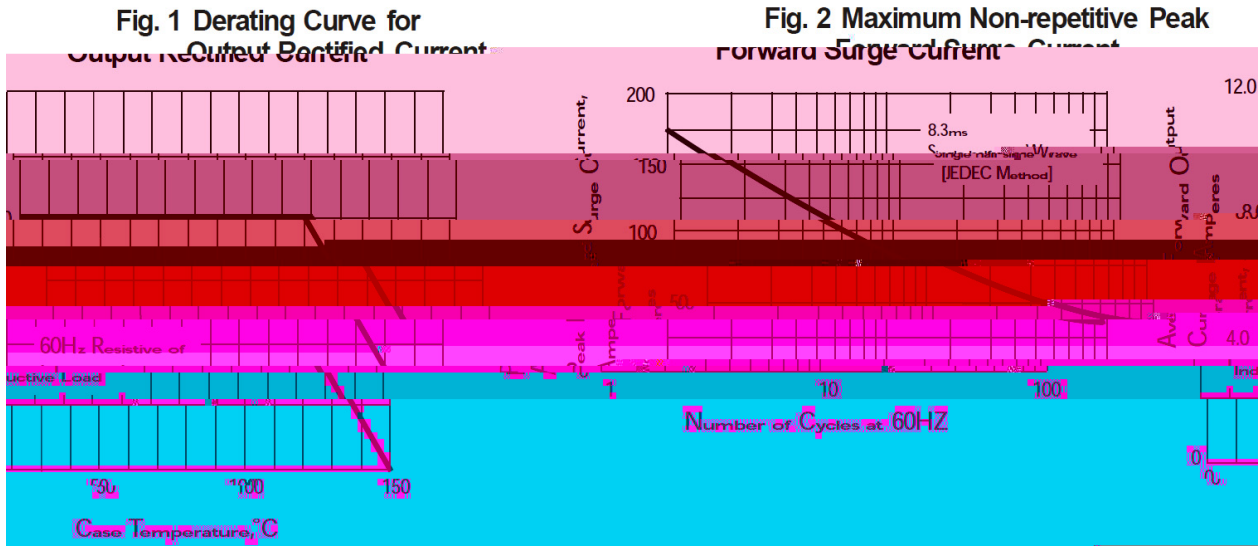
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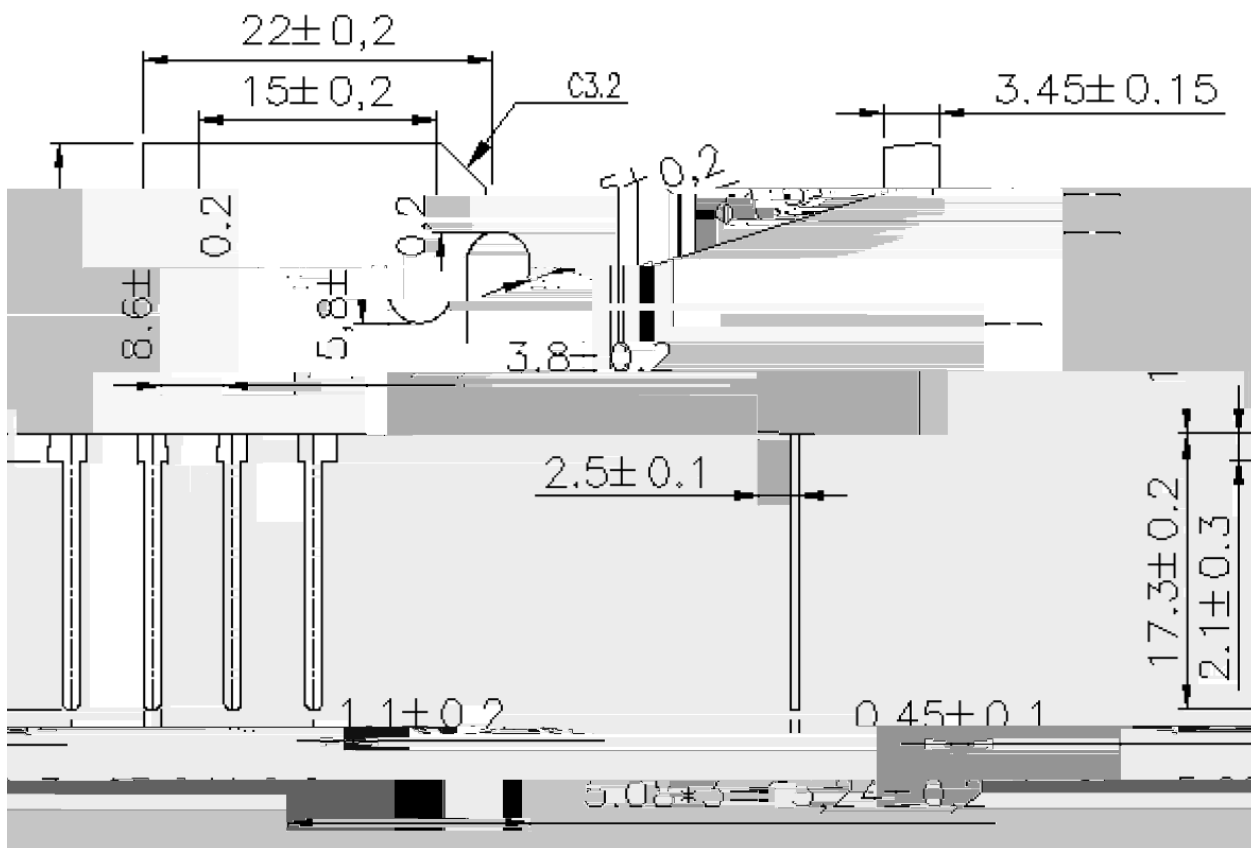
DATA SHEET

Parameter	Symbol	Rating							Unit
		GBU 8005	GBU 801	GBU 802	GBU 804	GBU 806	GBU 808	GBU 810	
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 output current at $T_C=100$ (with heatsink)	$I_{F(AV)}$	8.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	175							A
Rating for fusing ( $t < 8.3ms$ )	$I^2t$	127							$A^2s$

/ Electrical Characteristic Curve



/ Package Dimensions



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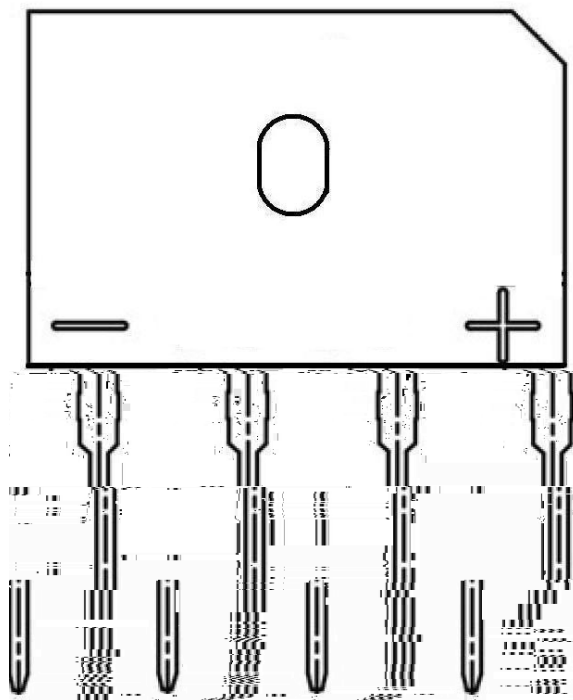
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蓝箭电子  
BLUE ROCKET ELECTRONICS

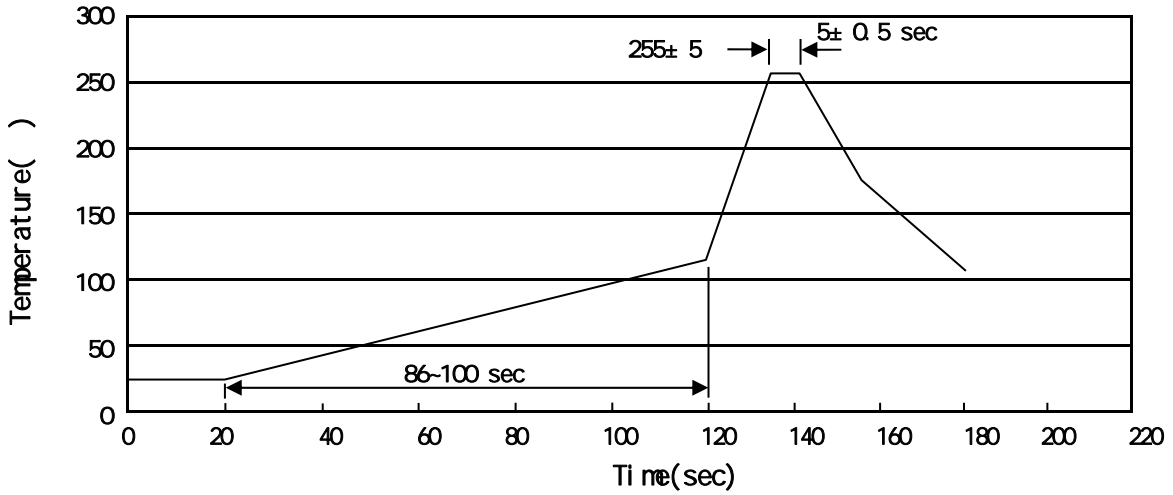
DATA SHEET

## / Marking Instructions



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



Note:

- |   |     |     |    |          |   |
|---|-----|-----|----|----------|---|
| 1 | 25  | 150 | 60 | 90sec;   | 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.            |

/ 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 <sup>3</sup> )		
GBU	-	-	250	10	2500	-	-	-

/ Notices