GBU8005~GBU810

Rev.B May.-2025

/ Descriptions

8.0A 50~1000V GBU

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

/ Features

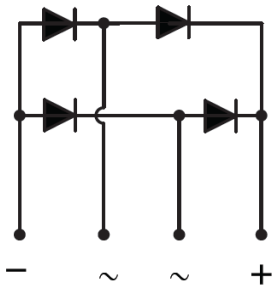
PCB UL 94V-0

Ideal for printed circuit bodrd,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 PIN 3 AC PIN 4 DC+

/ Marking

See Marking Instructions.

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
							800	1000	V
									A
									A
									A^2s

/ Electrical Characteristic Curve

Fig. 1 Derating Curve for Output Rectified Current

Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

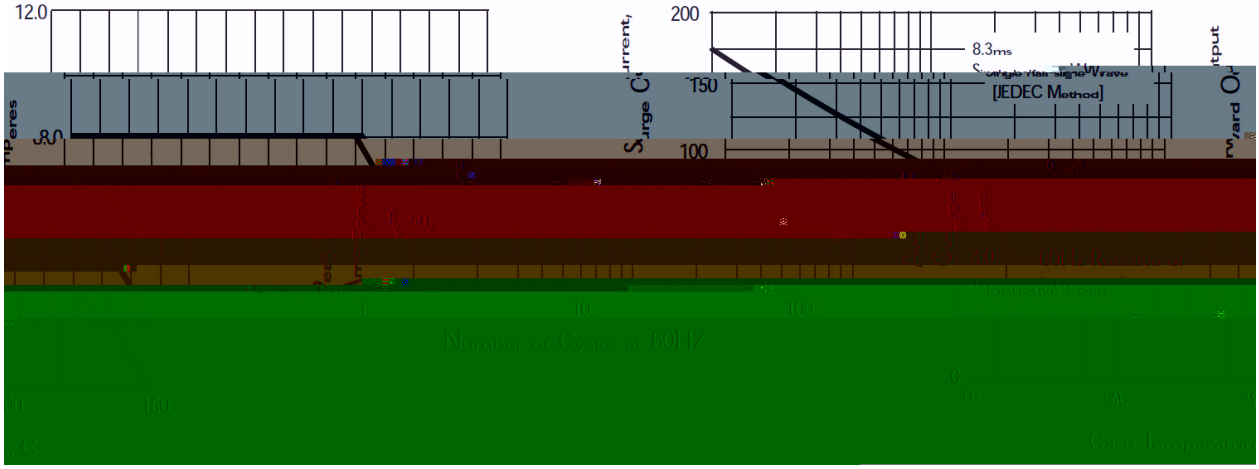


Fig. 3 Typical Instantaneous Forward Characteristics

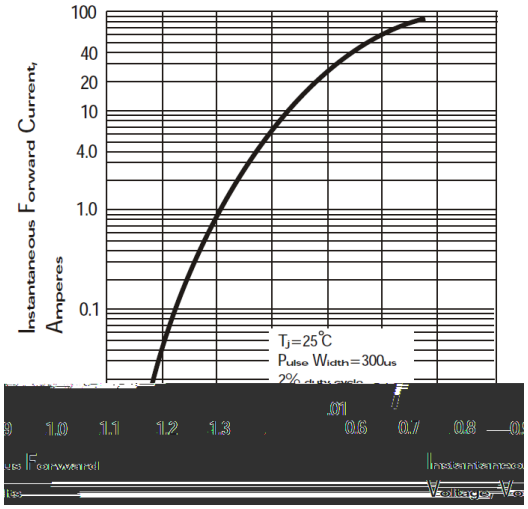


Fig. 4 Typical Reverse Characteristics

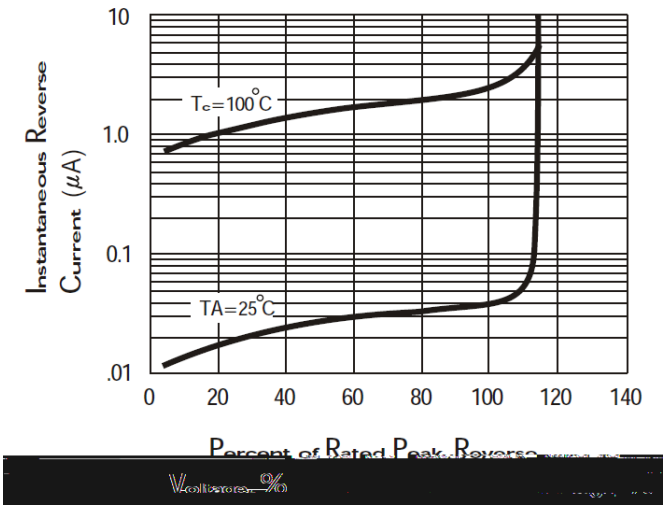
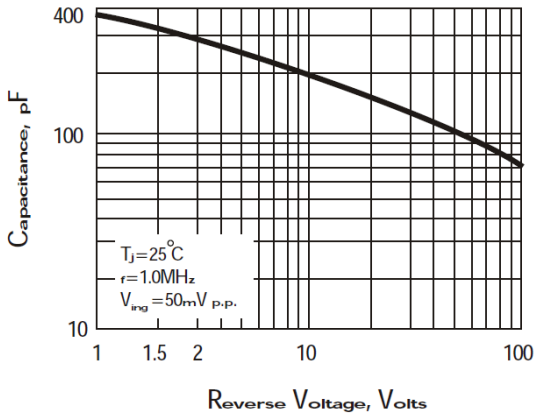
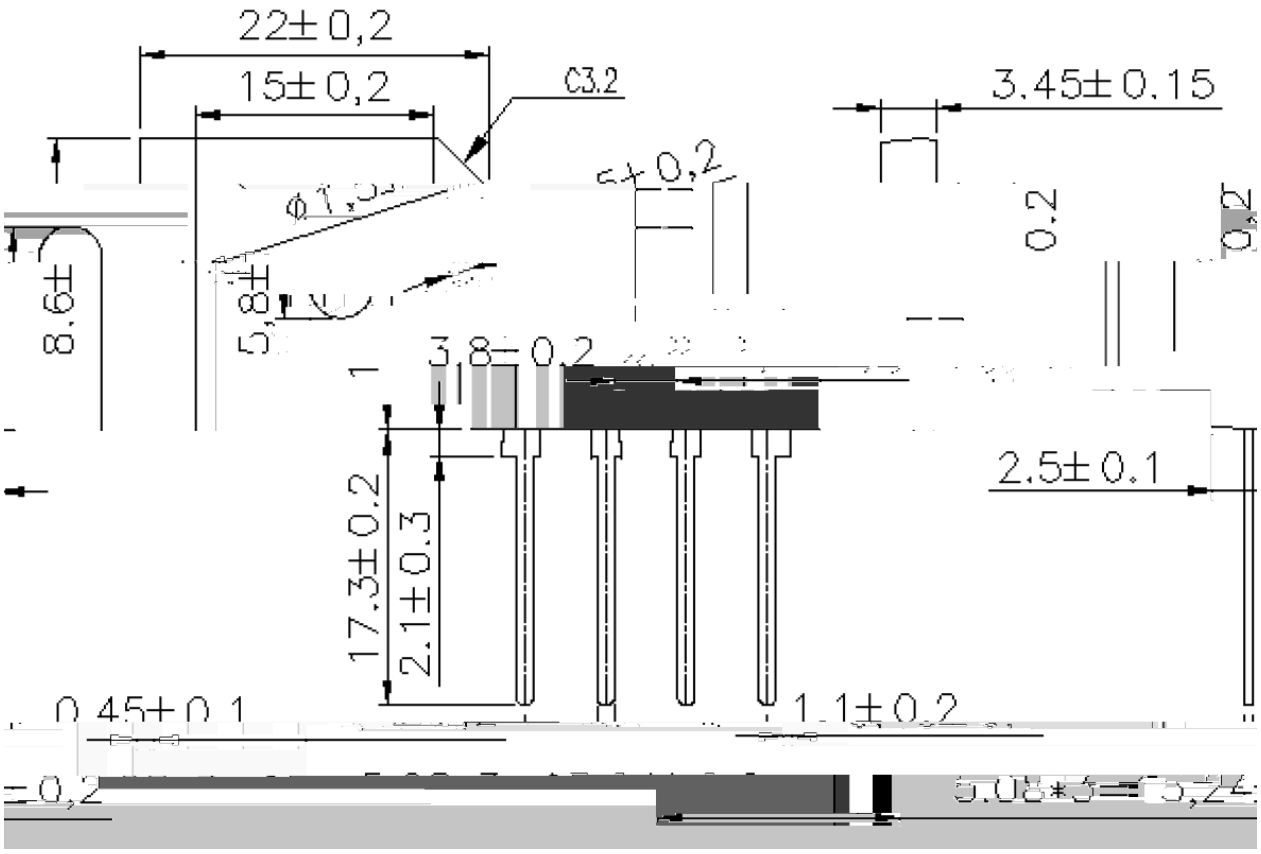


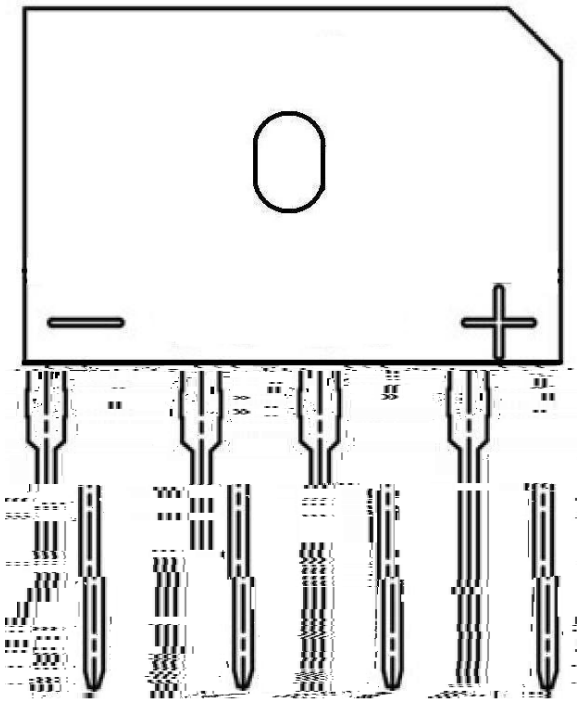
Fig. 5 Typical Junction Capacitance



/ Package Dimensions



/ Marking Instructions



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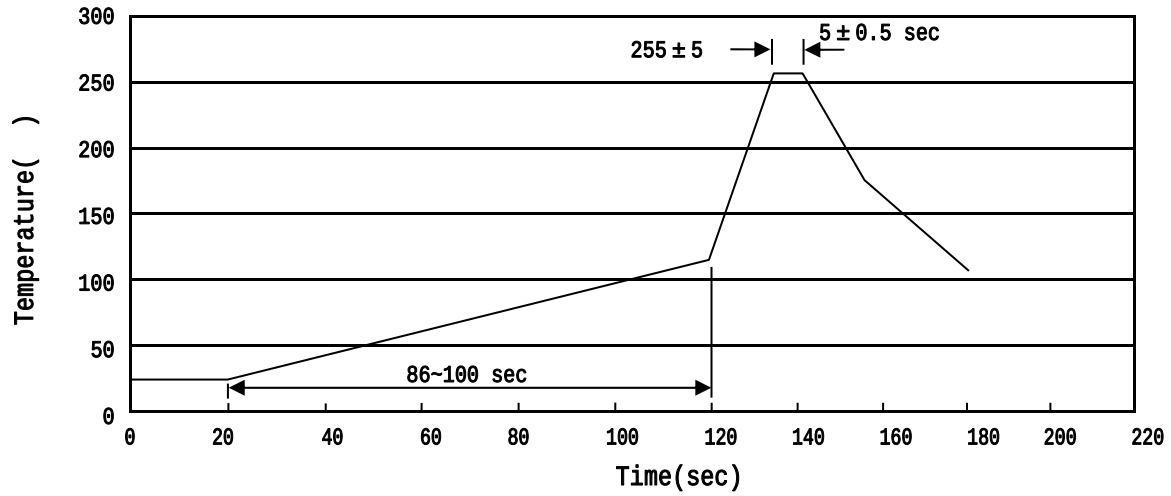
( ) / Temperature Profile for Dip Soldering(Pb-Free)



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 mm³)
GBU	-	-	250	10	2500	-	-	-

/ Notices