

Rev.A .Jul.-2018

50~1000V 8.0A GBJ

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

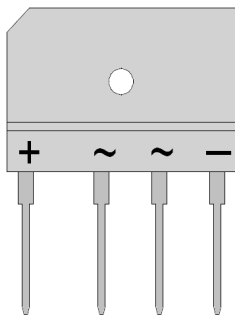
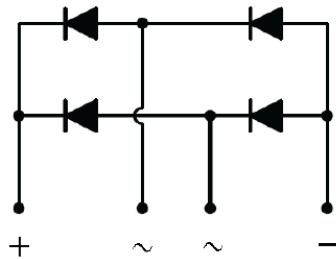
PCB

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.



1 2 3 4

PIN1 DC+ PIN2 AC PIN 3 AC PIN 4 DC-

See Marking Instructions

Parameter	Symbol	Rating							Unit
		GBJ 8005G	GBJ 801G	GBJ 802G	GBJ 804G	GBJ 806G	GBJ 808G	GBJ 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)	$I_{F(AV)}$	8.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	200							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	166							A^2s
Typical Junction Capacitance per element (Note1)	CJ	66							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	1.6							/W
Operation Temperature Range	T_j	-55 to +150							
Storage Temperature Range	T_{stg}	-55 to +150							

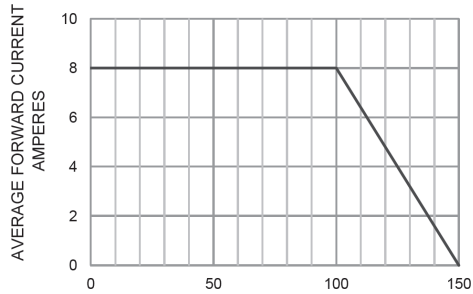
NOTE:

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 150mm*150mm*1.6mm Cu Plate Heatsink.

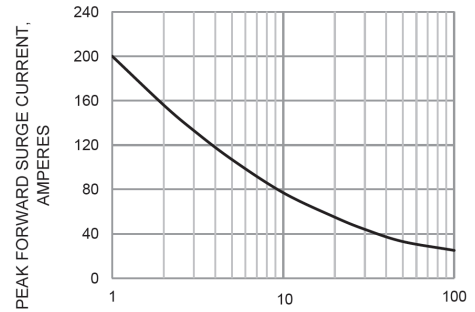
Parameter	Symbol	Test Conditions	Rating
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FIG.1-FORWARD CURRENT DERATING CURVE



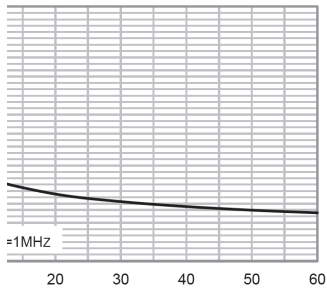
CASE TEMPERATURE (°C)

FIG.2-MAXIMUM FORWARD SURGE CURRENT



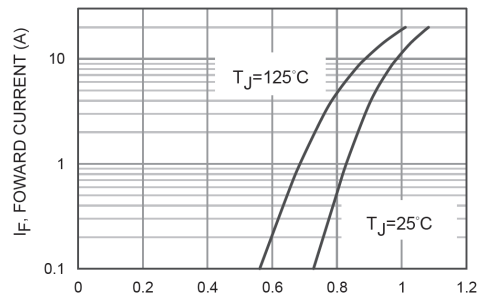
NUMBER OF CYCLES AT 60Hz

TYPICAL JUNCTION CAPACITANCE



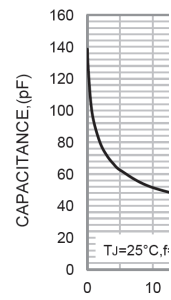
1MHz

FIG.4-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE (V)

FIG.3-TYPICAL JUNCTION CAPACITANCE

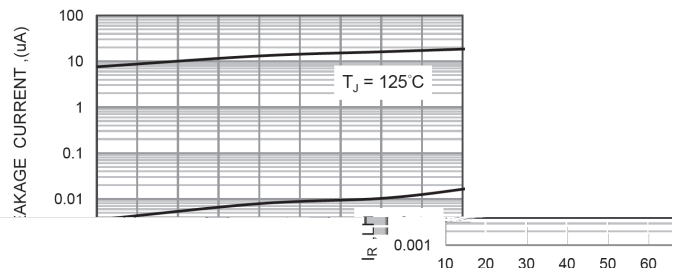


TJ=25°C,f

(DLTS)

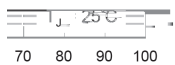
REVERSE VOLTAGE,(V)

FIG.5-TYPICAL REVERSE CHARACTERISTICS



TJ=125°C

IR 0.001

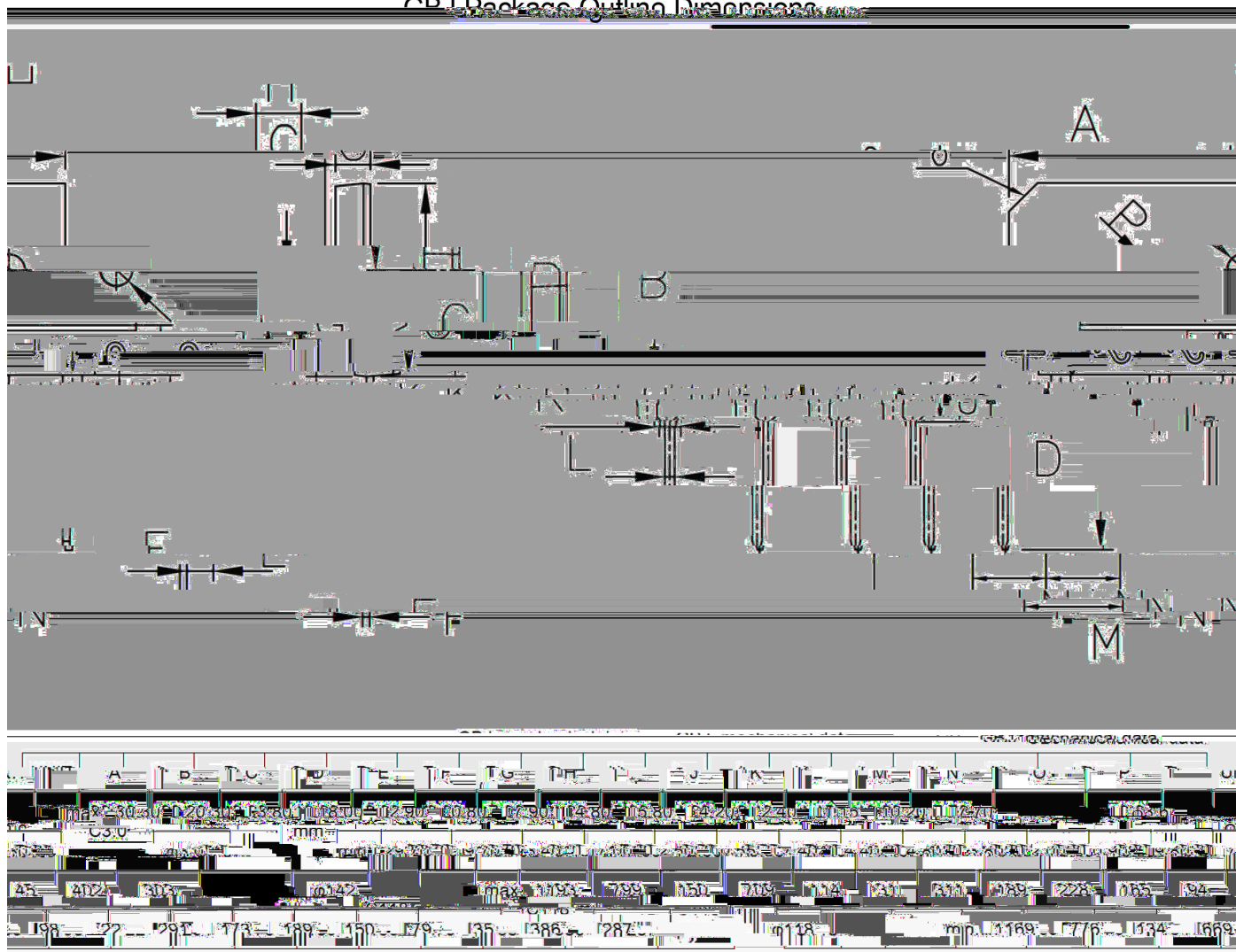


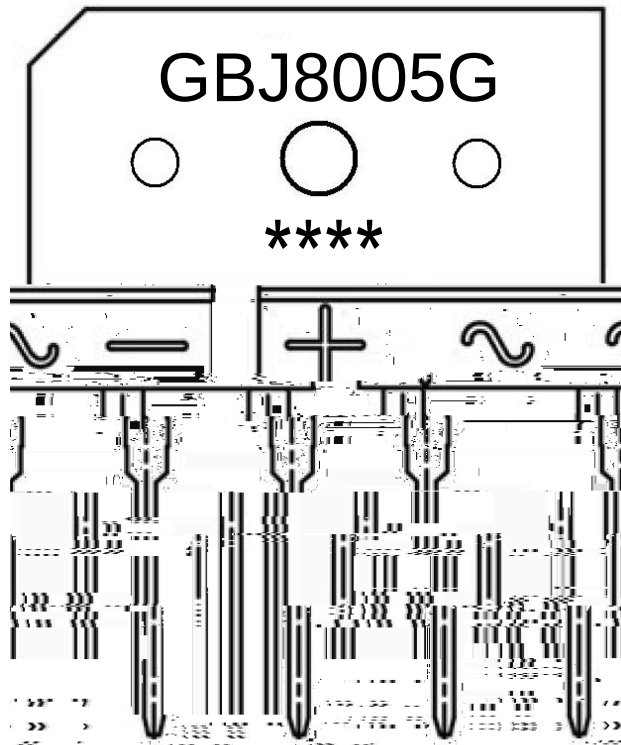
TJ=25°C

REVERSE VOLTAGE,(%)

PERCENT OF RATED PEAK RE

CP-1 Package Outline Dimensions





GBJ8005G

Note:

GBJ8005G:	Product Type.
****:	Lot No. Code, code change with Lot No.



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.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
GBJ	-	-						