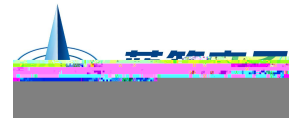


# GBJ35005G~GBJ3510G

Rev.A .Jul.-2018



DATA SHEET

## / Descriptions

玻璃钝化整流桥，反向电压：50~1000V，正向电流：35 A，GBJ 封装。

Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:35A,GBJ package.

## / Features

优化 PCB 板选择，塑料模具外壳，塑料的 UL 易燃性等级为 94V-0。无卤产品。

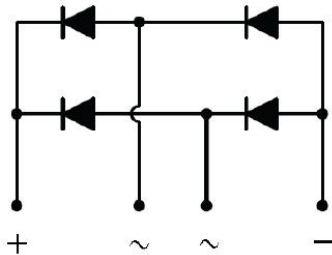
Ideal for printed circuit board, Case material molded plastic, The plastic material has U/L flammability classification 94V-0. Halogen free product.

## / Applications

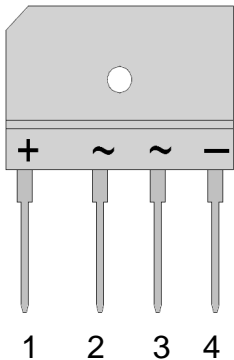
一般用途。

General purpose.

## / Equivalent Circuit



## / Pinning



PIN1 : DC+

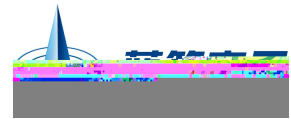
PIN2 : AC

PIN 3 : AC

PIN 4 : DC-

## / $h_{FE}$ Classifications & Marking

见印章说明。 See Marking Instructions



**/ Absolute Maximum Ratings(Ta=25 )**

参数 Parameter	符号 Symbol	数值 Rating							单位 Unit
		GBJ 35005G	GBJ 3501G	GBJ 3502G	GBJ 3504G	GBJ 3506G	GBJ 3508G	GBJ 3510G	
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)	$I_{F(AV)}$	35							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	$I_{FSM}$	350							A
$I^2t$ Rating for Fusing (t<8.3ms)	$I^2t$	508							A <sup>2</sup> s
Typical Junction Capacitance Per Element (Note1)	CJ	114							pF
Typical Thermal Resistance (Note2)	$R_{Jc}$	1.0							°C/W
Operating Temperature Range	$T_j$	-55 to +150							°C
Storage Temperature Range	$T_{stg}$	-55 to +150							°C

NOTE:

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

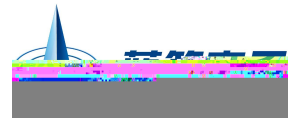
2.Device mounted on 150mm\*150mm\*1.6mm Cu Plate Heatsink.

**/ Electrical Characteristics(Ta=25 )**

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating	单位 Unit
Maximum Forward Voltage	$V_F$	$I_F=17.5A$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_a=25$	5.0	μA
		$T_a=125$	500	

# GBJ35005G~GBJ3510G

Rev.A .Jul.-2018



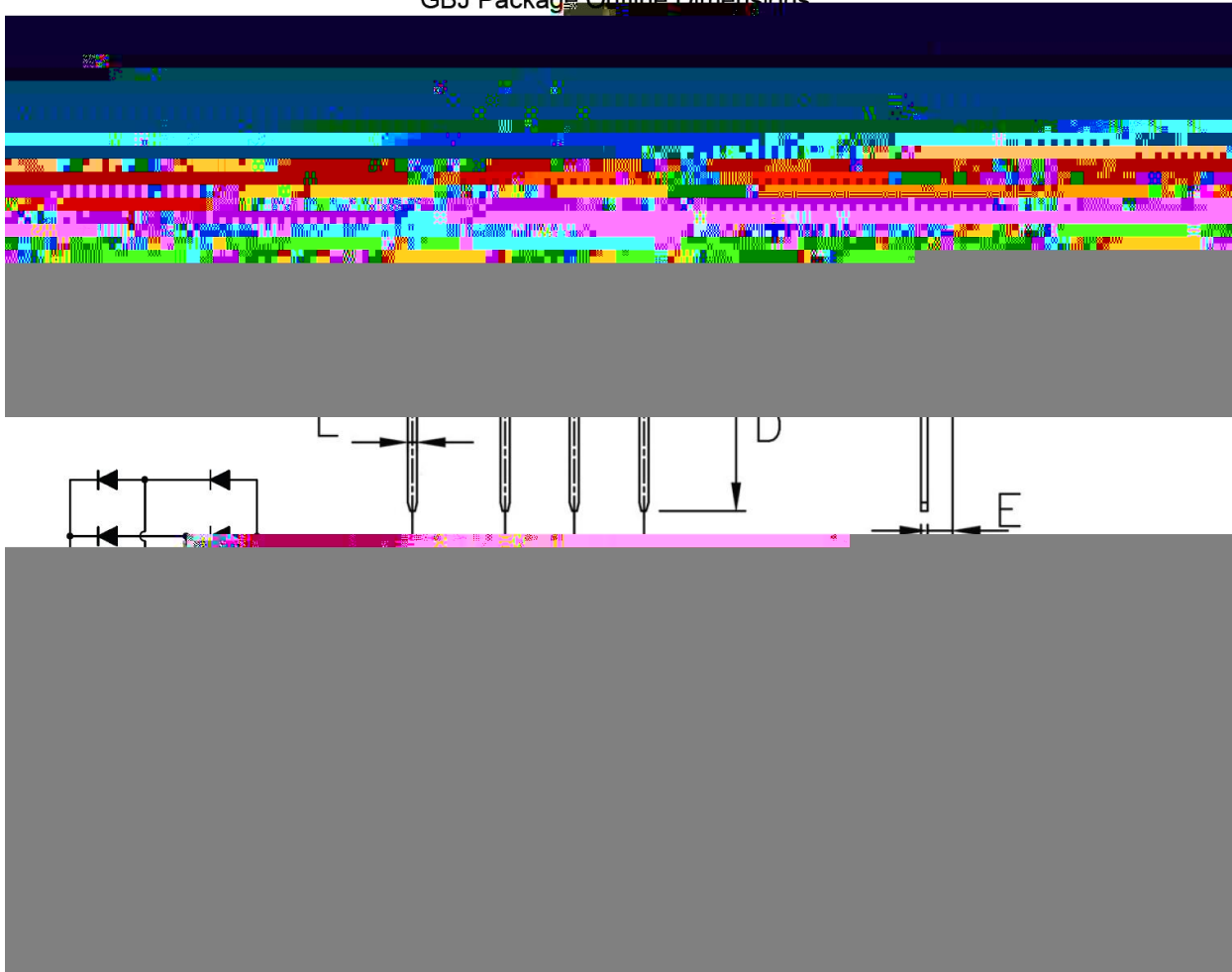
DATA SHEET

/ E

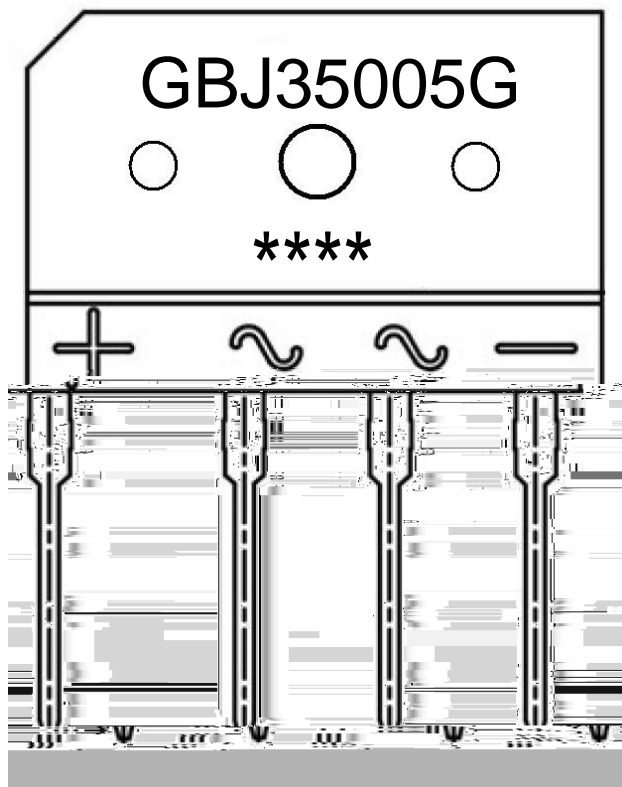


**/ Package Dimensions**

GBJ Package Outline Dimensions



/ Marking Instructions



说明：

GBJ35005G： 为产品型号

\*\*\*\*： 为生产批号代码，随生产批号变化

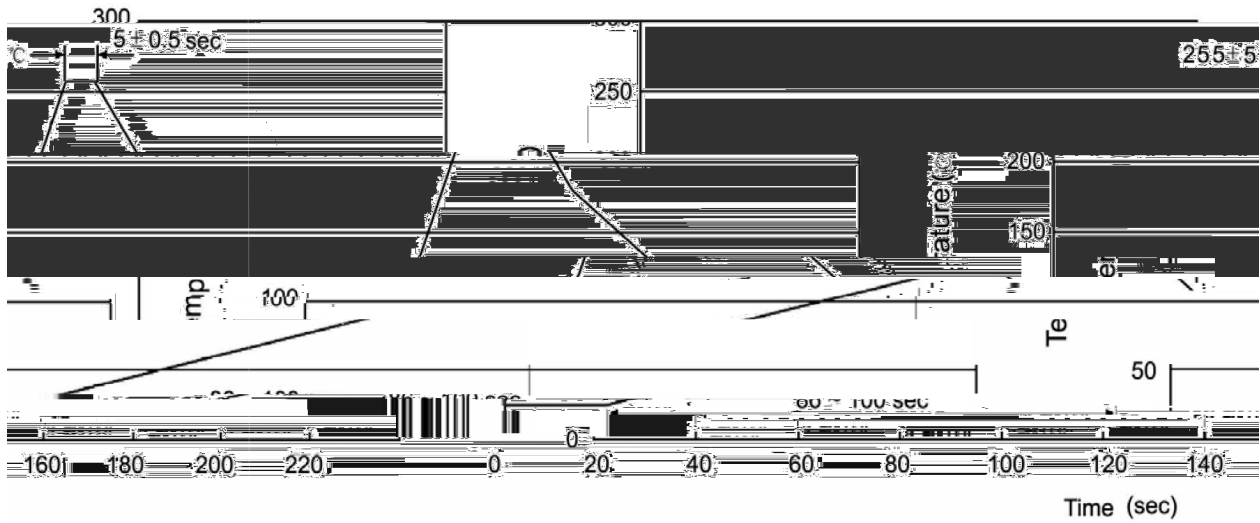
Note:

GBJ35005G: Product Type.

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



( ) / 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°C                      Time:10±1 sec

/ Packaging SPEC.

/ BULK

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

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube 套管	Inner Box 盒	Outer Box 箱