

/ Revised record

GBJ20005G~GBJ2010G

Rev.A .Jul.-2019



50~1000V

20A GBJ

Glass Passivated Bridge Rectifiers, Reverse Voltage:50~1000V,Forward Current:20A,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.

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/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		GBJ 20005G	GBJ 2001G	GBJ 2002G	GBJ 2004G	GBJ 2006G	GBJ 2008G	GBJ 2010G	
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)	$I_{F(AV)}$	20							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	270							A
I^2t Rating for Fusing (t<8.3ms)	I^2t	300							A ² s
Typical Junction Capacitance Per Element (Note1)	CJ	70							pF
Typical Thermal Resistance (Note2)	$R_{\theta Jc}$	1.2							°C/W
Operating Temperature Range	T_j	-55 to +150							°C
Storage Temperature Range	T_{stg}	-55 to +150							°C

NOTE:

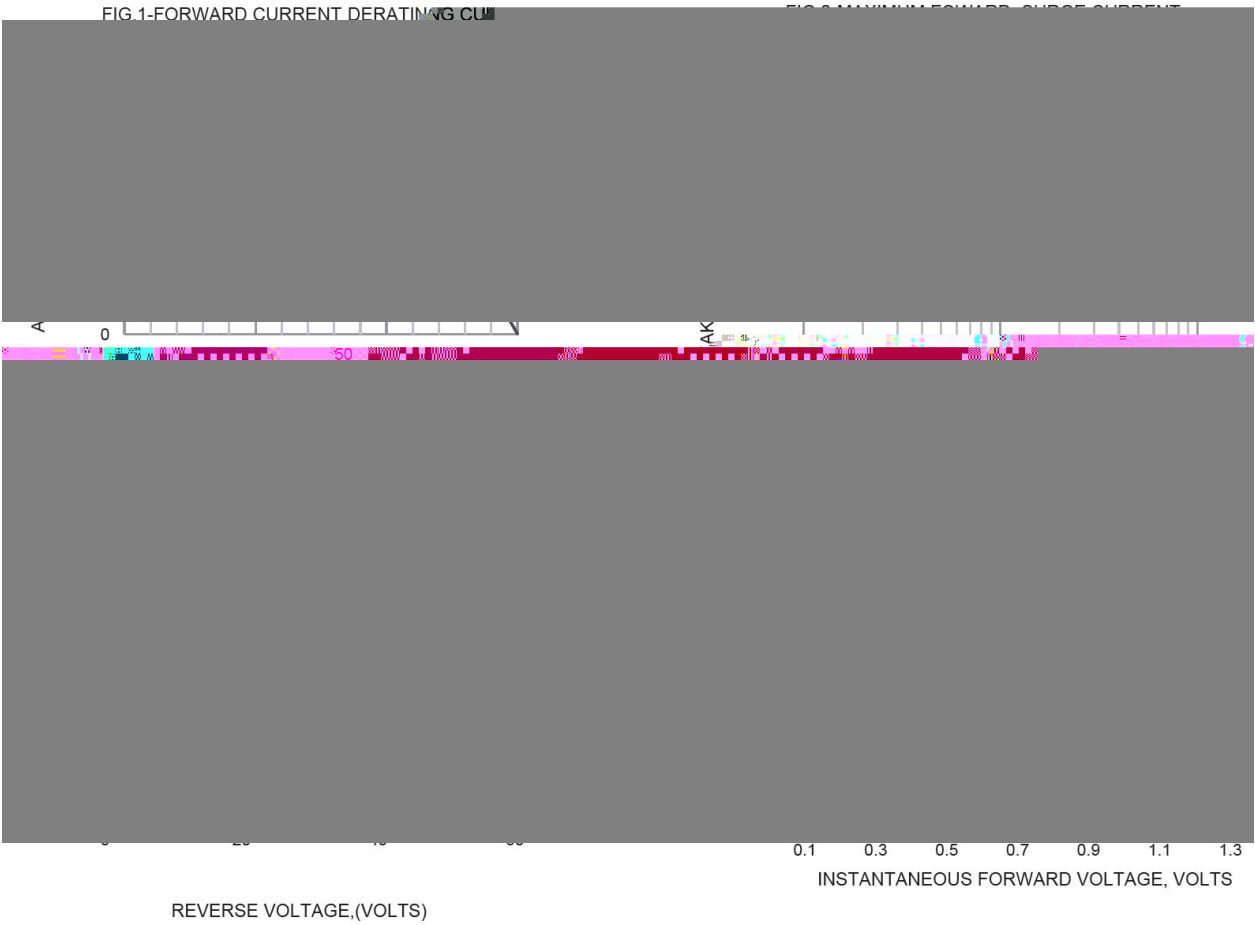
1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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

/ Electrical Characteristics(Ta=25)

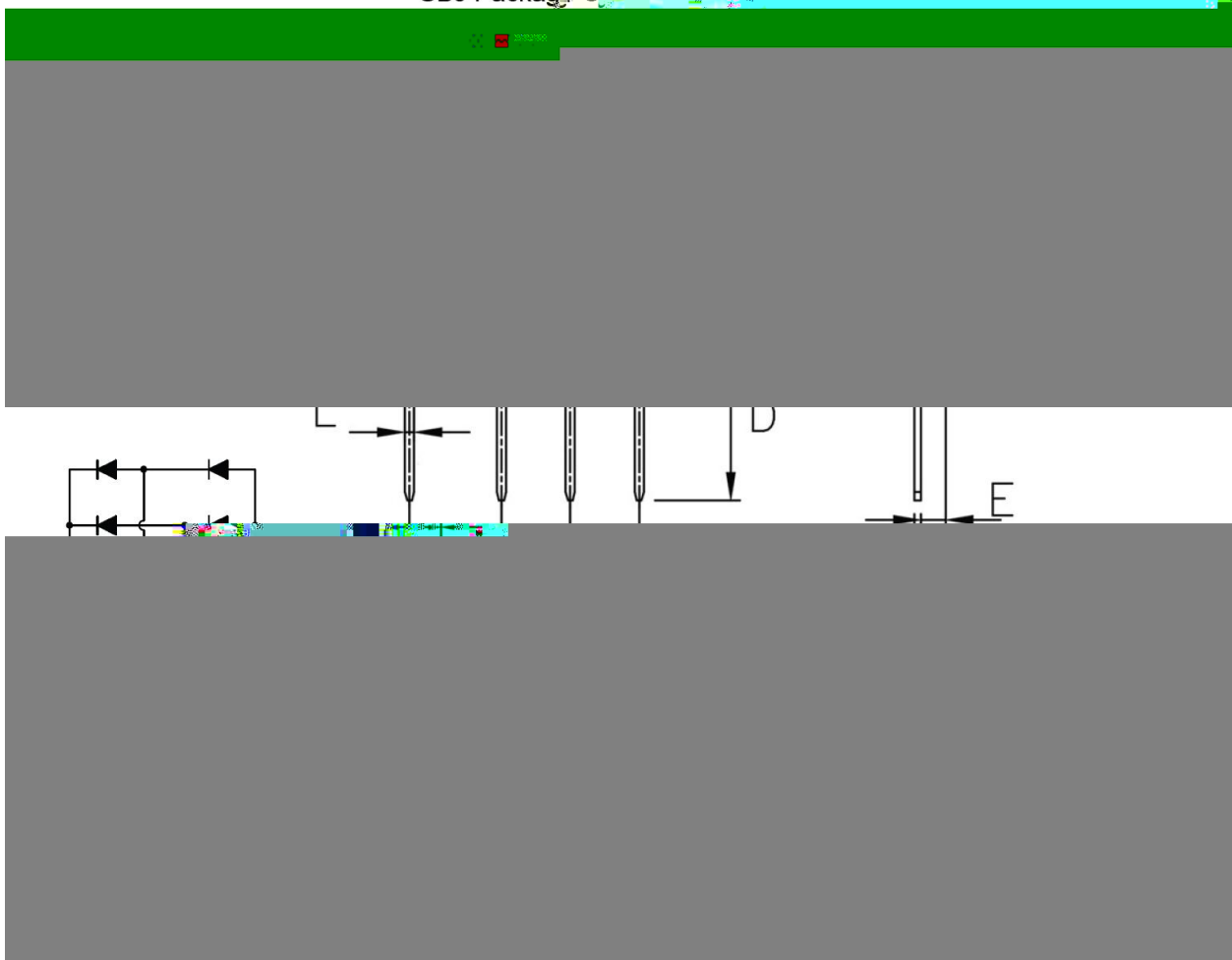
Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	V_F	$I_F=10A$	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^{\circ}C$	5.0	μA
		$T_a=125^{\circ}C$	500	

/ Electrical Characteristic Curve

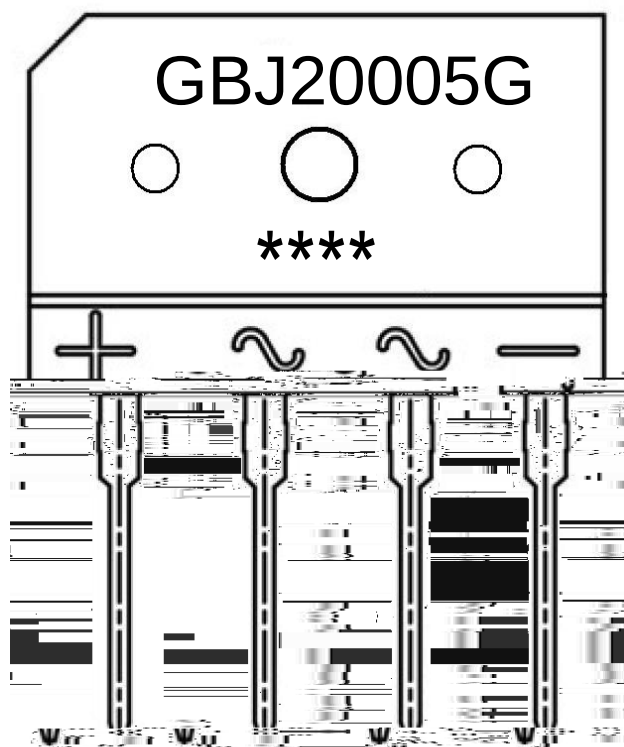


/ Package Dimensions

GBJ Package Outline Dimensions



/ Marking Instructions

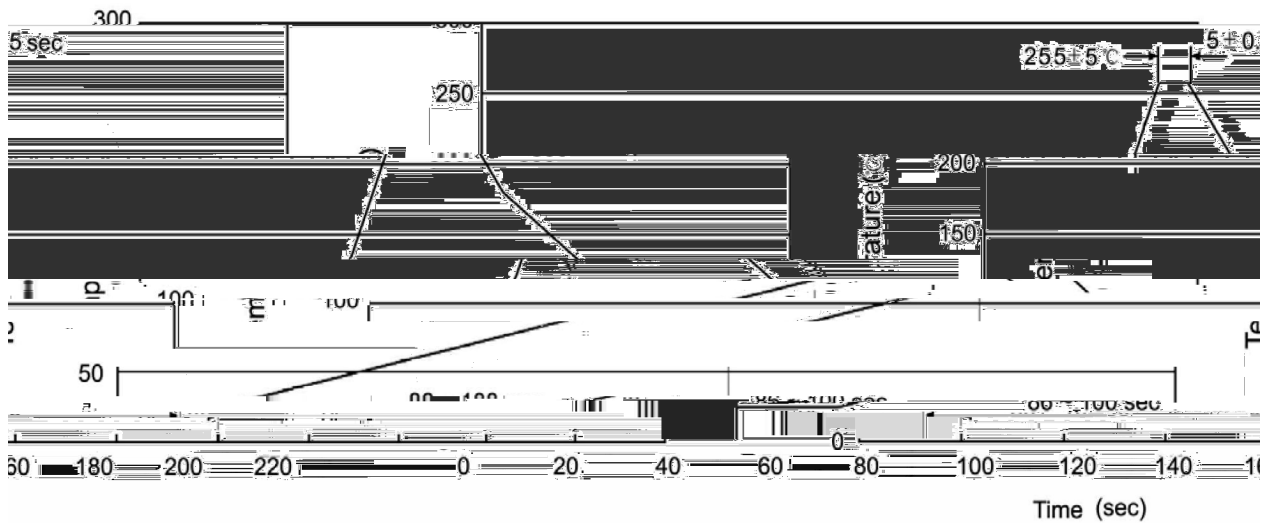


GBJ20005G

Note:

GBJ20005G: Product Type.
****: Lot No. Code, code change with Lot No.

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



1. 25 150 60 90sec;
 2. 255 5 5 0.5sec;
 3. 2 10 /sec.

Note:

1. Preheating: 25~150 , Time: 60~90sec.
 2. Peak Temp.: 255 5 , Duration: 5 0.5sec.
 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 ³)		
	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 ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube 套管	Inner Box 盒	Outer Box 箱
GBJ	/	/	200	10	2000	/	306*108*42mm	322*246*252mm

/ Notices