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50~1000V 20A GBJ

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

PCB UL 94V-0

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

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General purpose.

| 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 Surage 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 | | | | | | | $A^2s$ |
| Typical Junction Capacitance Per Element (Note1) | CJ | 70 | | | | | | | pF |
| Typical Thermal Resistance (Note2) | $R_{\theta Jc}$ | 1.2 | | | | | | | ℃/W |
| Operating Temperature Range | $T_j$ | -55 to +150 | | | | | | | ℃ |
| Storage Temperature Range | $T_{stg}$ | -55 to +150 | | | | | | | ℃ |

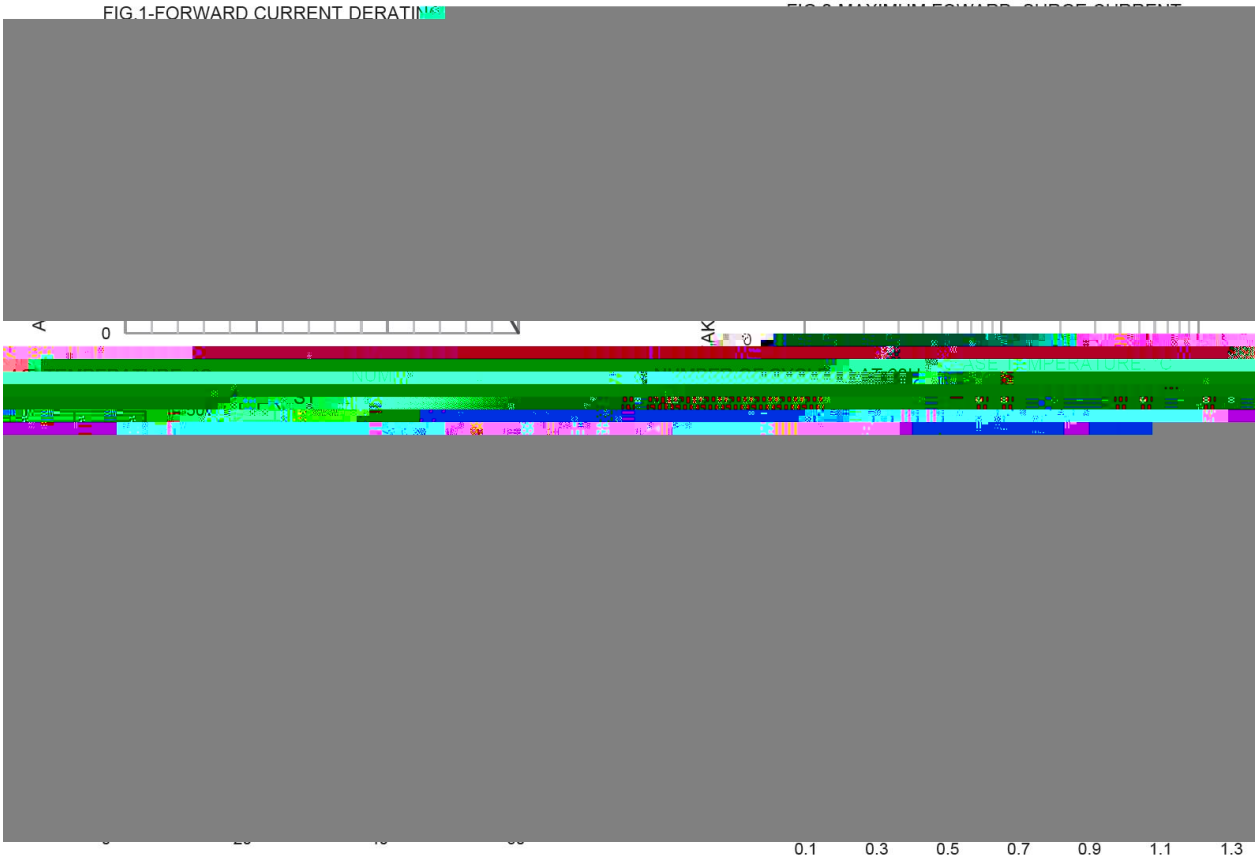
NOTE:

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

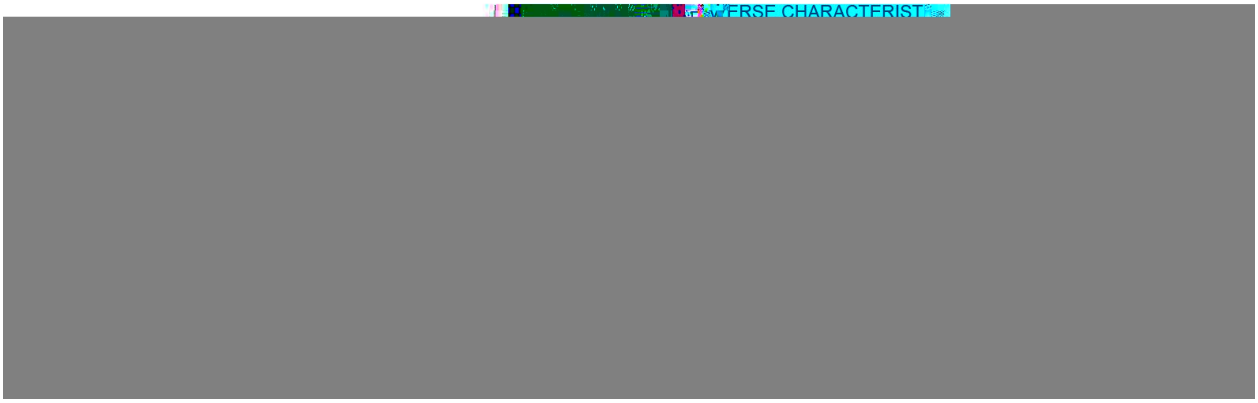
2.Device mounted on 150mm*150mm*1.6mm Cu Plate Heatsink.

| Parameter | Symbol | Test Conditions | Rating | 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℃ | 5.0 | μA |
| | | $T_a$=125℃ | 500 | |

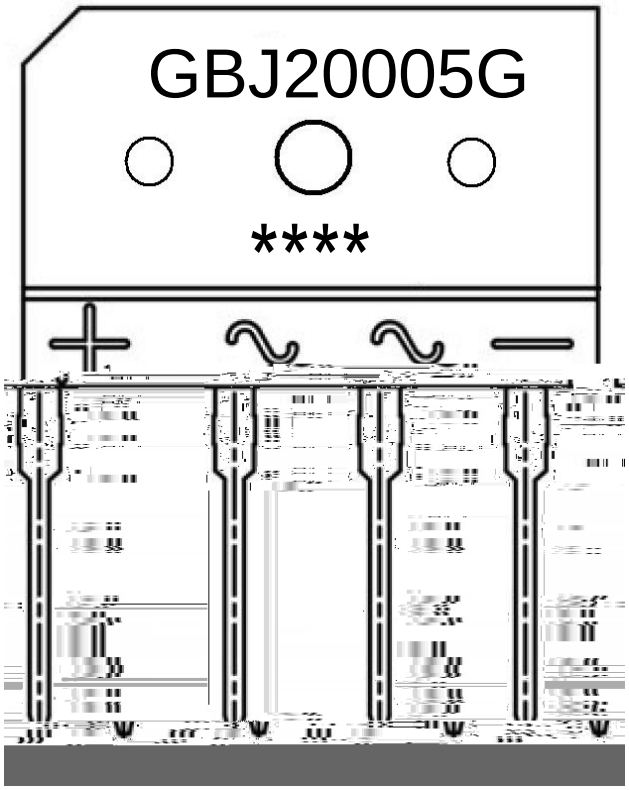
FIG.1-FORWARD CURRENT DERATIN




VERSE CHARACTERIST



GBJ Package Outline Dimensions




GBJ20005G

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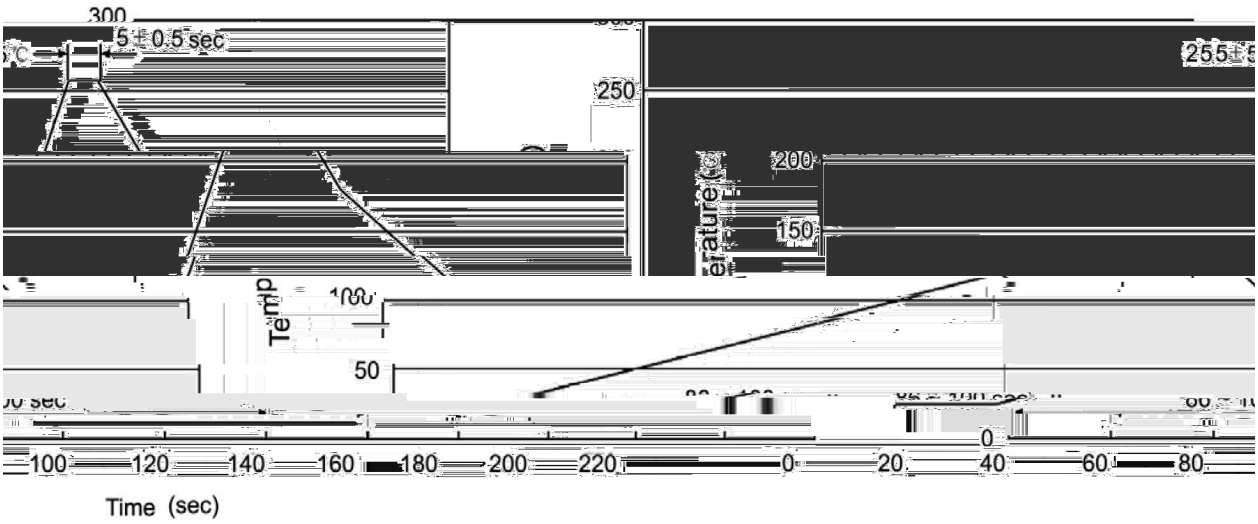
Note:

| | |
|---|---|
| GBJ20005G: | 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: mm³) | | |
|---|---|---|---|---|---|---|---|---|
| | 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: mm³) | | |
|---|---|---|---|---|---|---|---|---|
| | 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 |