

BRGBJ3006SF

Rev.A Jan.-2018

Ultrafast Recovery rectifier bridge in a GBJ Plastic Package.

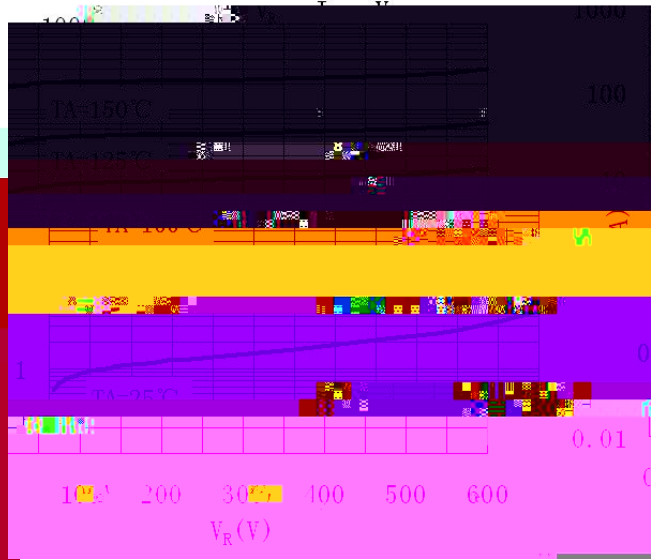
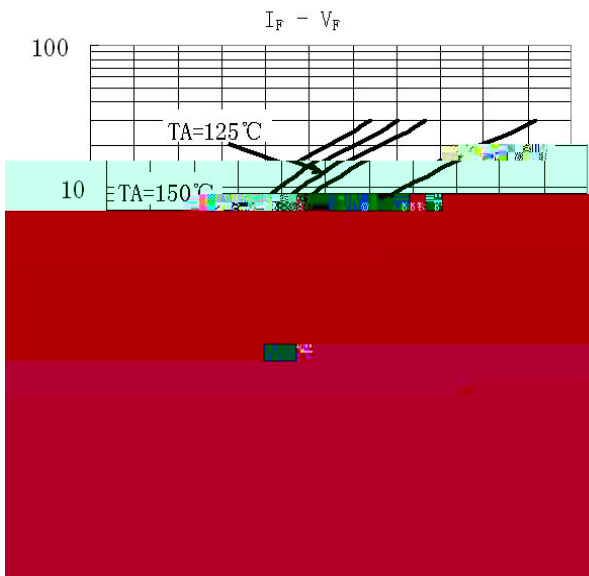
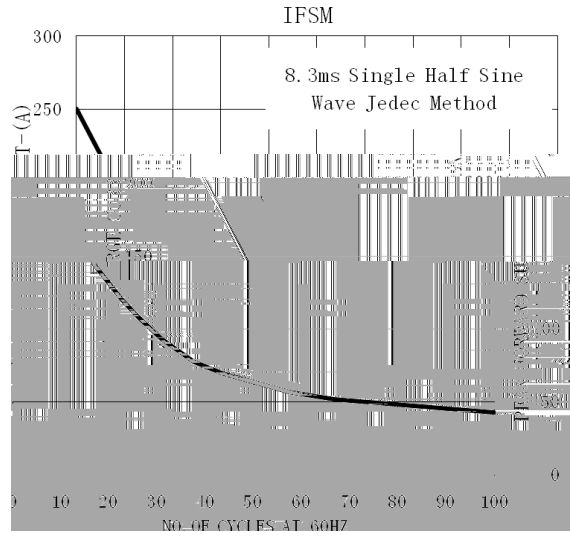
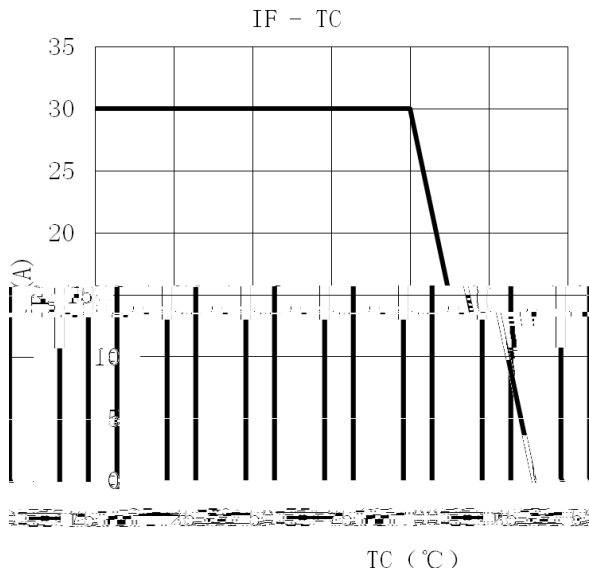
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| Parameter | Symbol | Rating | Unit |
|---|------------|---------|------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 600 | V |
| Maximum RMS Voltage | V_{RMS} | 420 | V |
| Maximum DC Blocking Voltage | V_{DC} | 600 | V |
| Maximum Average Forward Current | $I_{(AV)}$ | 4× 30 | A |
| Peak forward surge current | I_{FSM} | 250 | A |
| Typical Thermal Resistance Junction to Case | R_{JC} | 0.6 | /W |
| Junction Temperature Range | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |

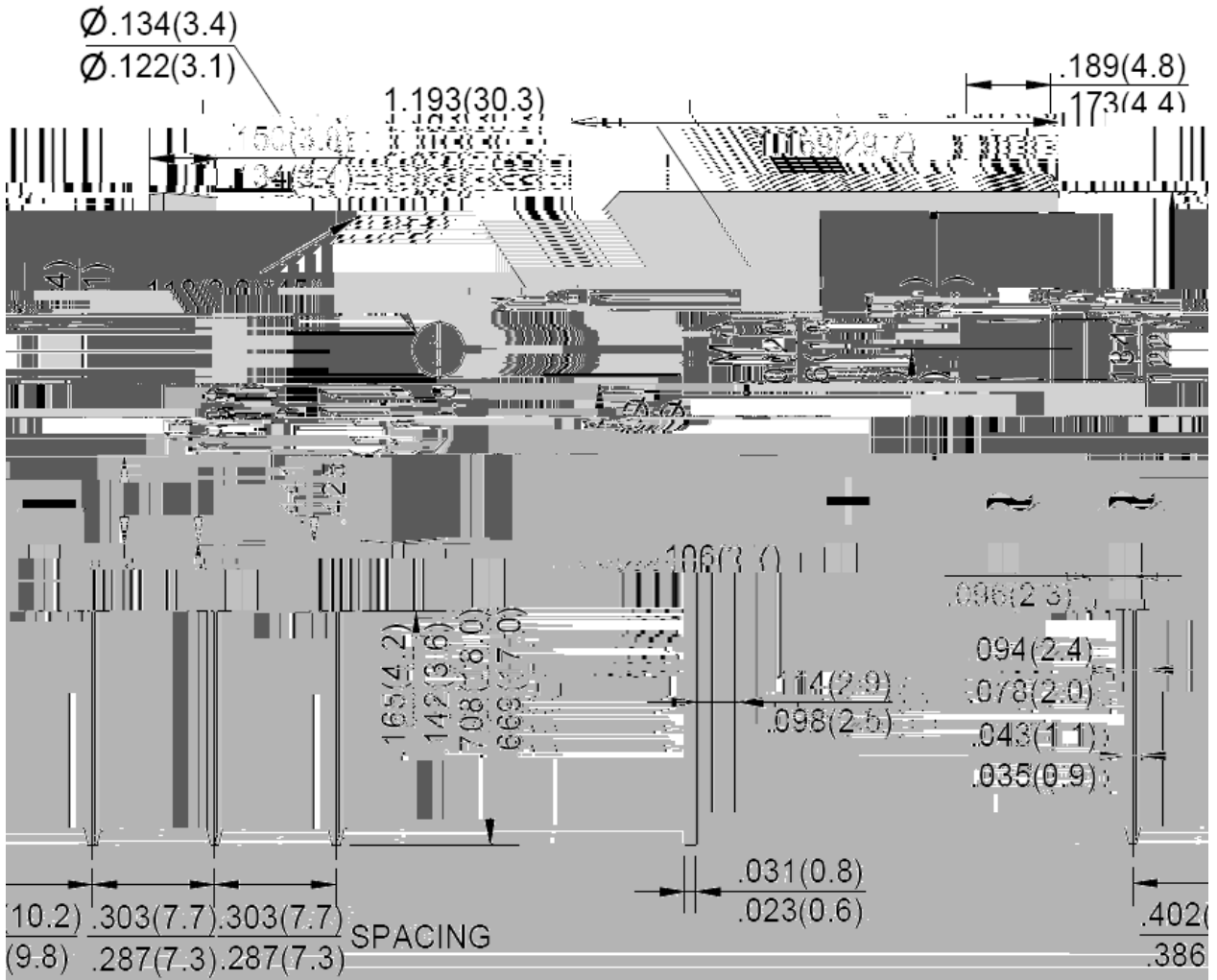
| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-------------------------------|-----------------|---|-----|------|------|---------|
| Reverse Voltage | V_R | $I_R=1mA$ | 600 | 680 | | V |
| Forward Voltage | V_F | $I_F=5A$ $T_C=25$ | | 1.32 | 1.45 | V |
| | | $I_F=5A$ $T_C=125$ | | 0.90 | 1.25 | |
| | | $I_F=15A$ $T_C=25$ | | 1.90 | 2.25 | |
| | | $I_F=15A$ $T_C=125$ | | 1.26 | 1.65 | |
| | | $I_F=30A$ $T_C=25$ | | 2.35 | 2.65 | |
| | | $I_F=30A$ $T_C=125$ | | 1.65 | 2.15 | |
| Instantaneous Reverse Current | I_R Note 1 | $V_R=600V$ $T_a=25$ | | | 10 | μA |
| | | $V_R=600V$ $T_a=125$ | | | 500 | |
| Reverse Recovery Time | t_{rr} | $I_F=0.5A$ $I_{RR}=0.25A$ $I_R=1.0A$ | | 40 | 50 | ns |

/ Electrical Characteristic Curve

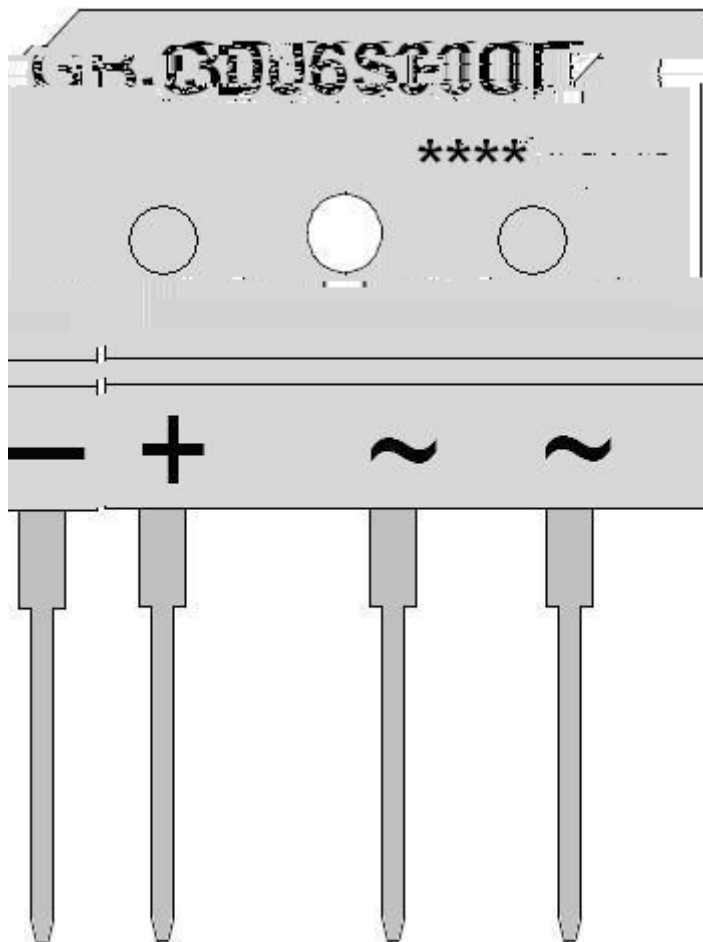


/ Package Dimensions

GBJ



/ Marking Instructions



GBJ3006SF

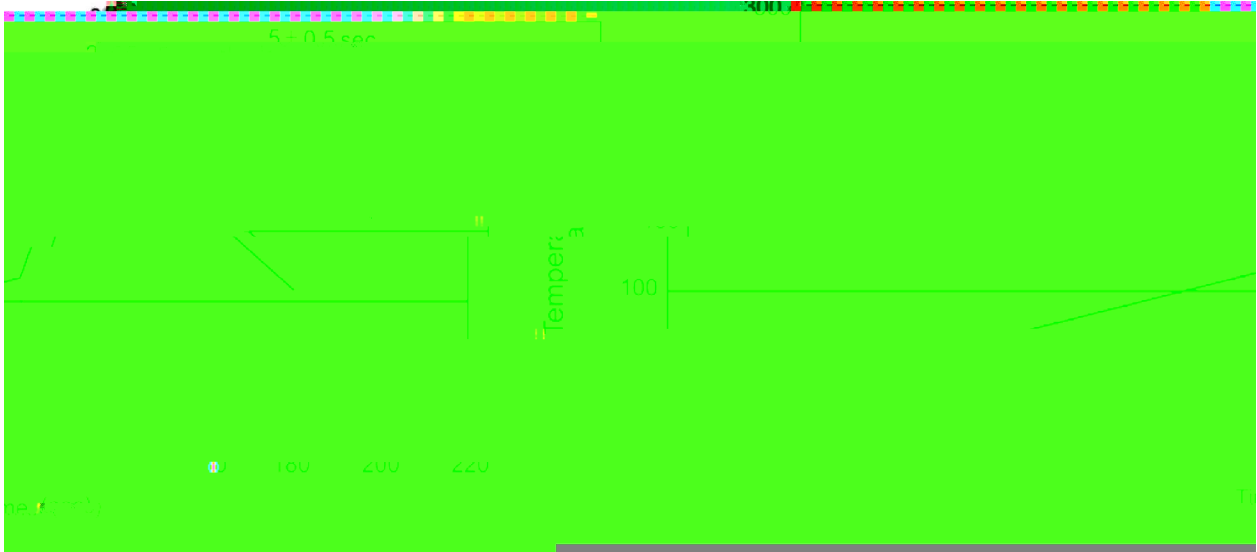
Note:

GBJ3006SF

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 Time:10±1 sec

/ Packaging SPEC.

/ BULK

| Package Type | Units | | | | | Dimension (unit mm ³) | | |
|--------------|-------------|------------------|-------------------|-------------------------|-------------------|-----------------------------------|------------|-------------|
| | Units/Bag / | Bags/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Bag | Inner Box | Outer Box |
| GBJ | - | - | 200 | 10 | 2000 | - | 255×145×48 | 310×270×250 |

/ TUBE

| Package Type | Units | | | | | Dimension (unit mm ³) | | |
|--------------|--------------|-------------------|-------------------|-------------------------|-------------------|-----------------------------------|-------------|-------------|
| | Units/Tube / | Tubes/Inner Box / | Units/Inner Box / | Inner Boxes/Outer Box / | Units/Outer Box / | Tube | Inner Box | Outer Box |
| GBJ | 15 | 40 | 600 | 2 | 1200 | 471×42×10 | 500×190×105 | 525×210×245 |

/ Notices