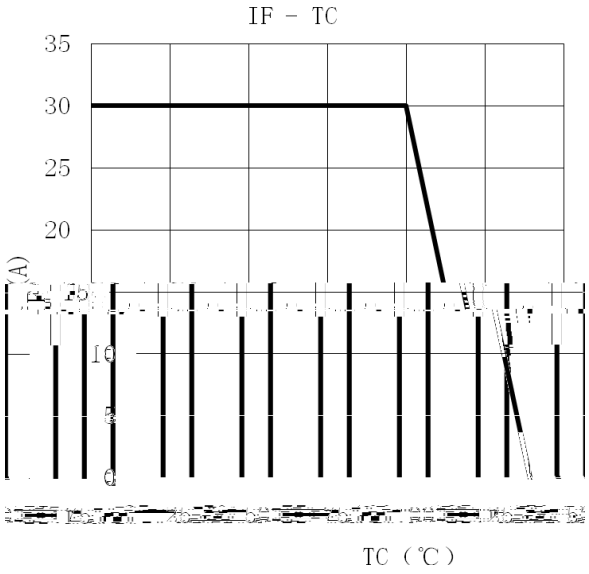
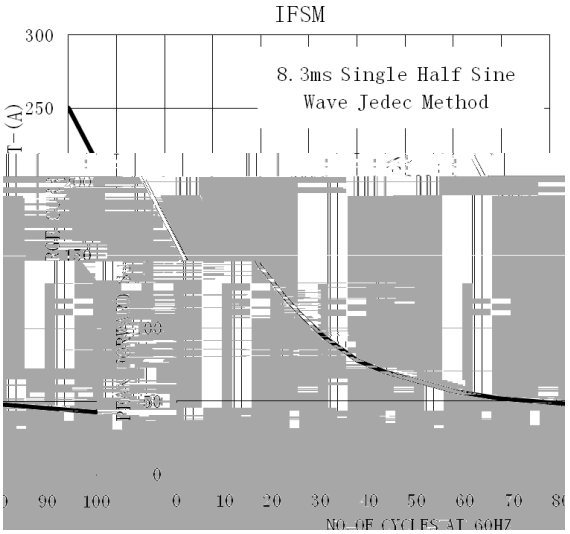
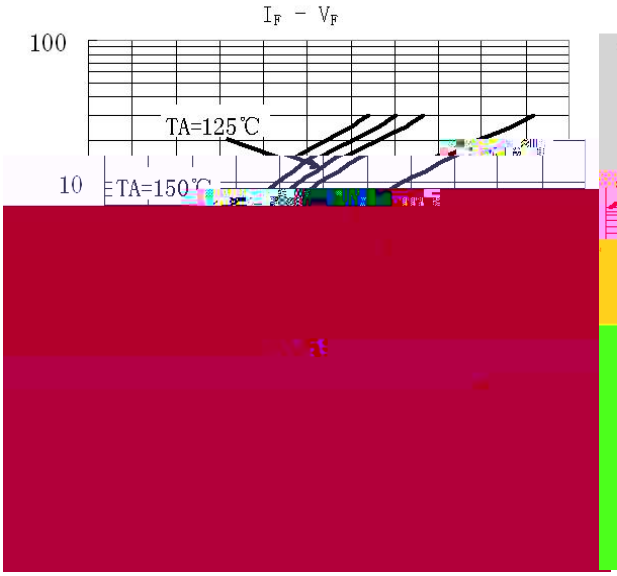
Ultrafast Recovery rectifier bridge in a GBJ Plastic Package.

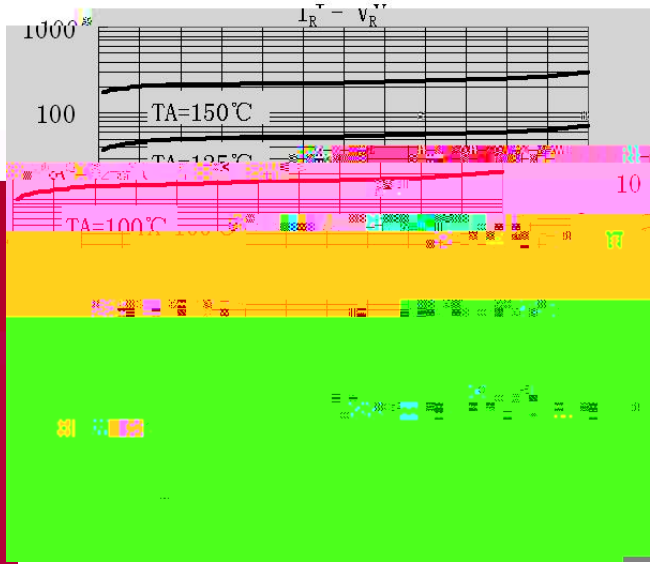
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 600 | V |
| Maximum RMS Voltage | $V_{RMS}$ | 420 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 600 | V |
| Maximum Average Forward Current | $I_{(AV)}$ | 4 × 30 | A |
| Peak forward surge current | $I_{FSM}$ | 250 | A |
| Typical Thermal Resistance Junction to Case | $R_{\theta Jc}$ | 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 |

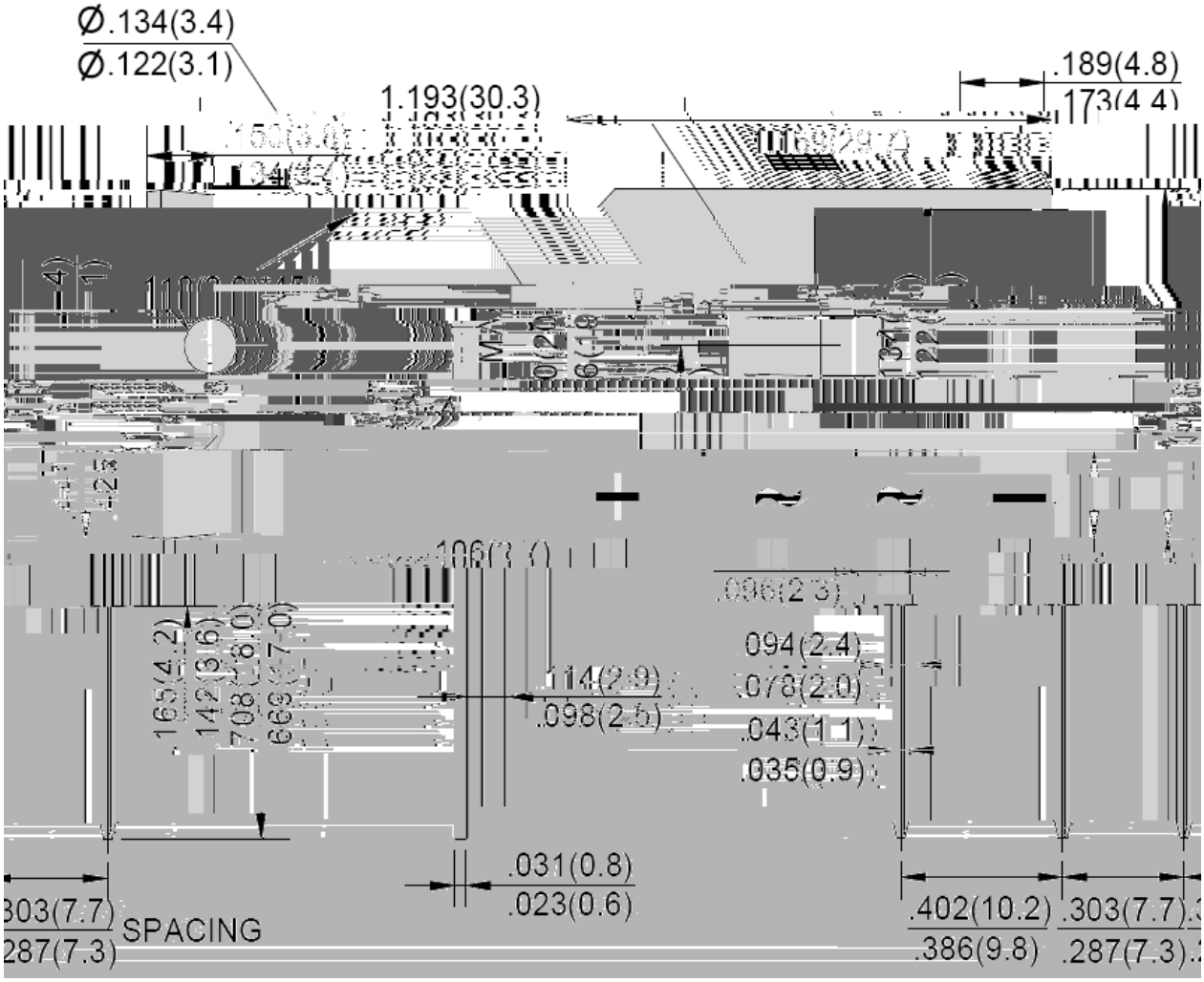

IF - TC
35
30
25
20
10
0
TC（℃）

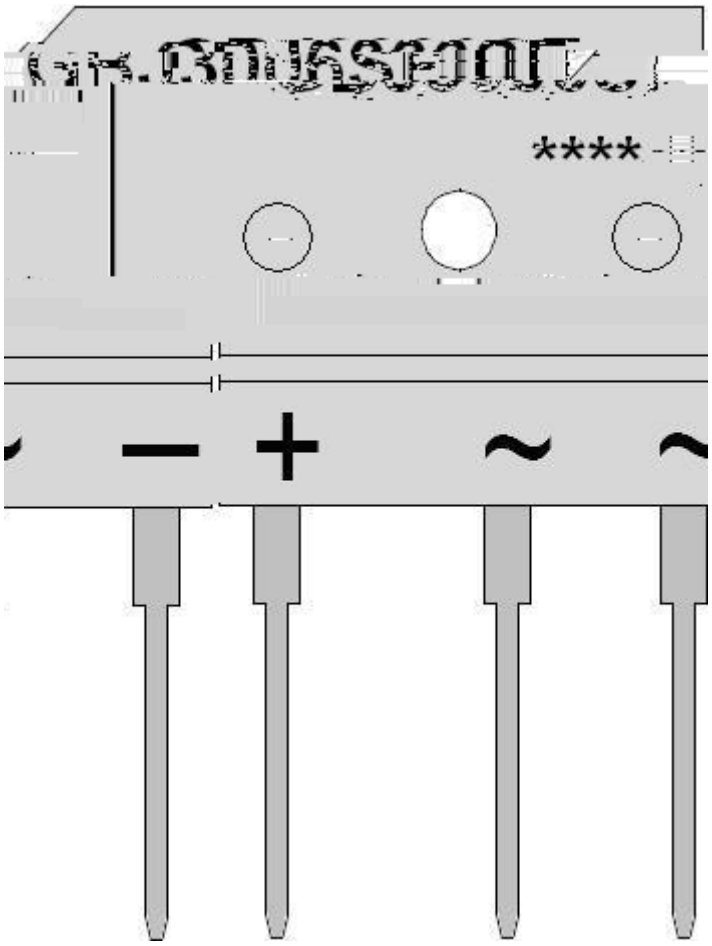

IFSM
8.3ms Single Half Sine
Wave Jedec Method
300
250
0
90
100
0
10
20
30
40
50
60
70


IF - VF
100
10
TA=125℃
TA=150℃


1000
100
10
TA=150℃
TA=100℃

# GBJ


Ø.134(3.4)
Ø.122(3.1)
1.193(30.3)
.189(4.8)
.165(4.2)
.142(3.6)
.708(18.0)
.663(17.0)
.114(2.9)
.098(2.5)
.094(2.4)
.078(2.0)
.043(1.1)
.035(0.9)
.031(0.8)
.023(0.6)
.303(7.7)
.287(7.3)
SPACING
.402(10.2)
.386(9.8)
.303(7.7)
.287(7.3)

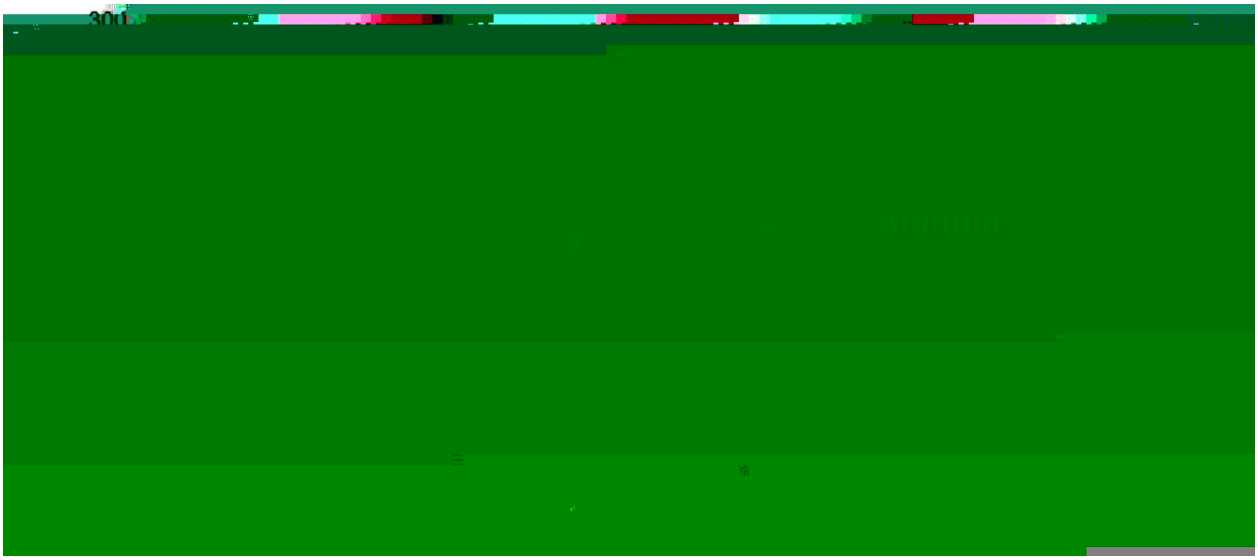



GBJ3006SF

****

Note:

| | |
|---|---|
| GBJ3006SF | Product Type |
| **** | Lot No. Code, code change with Lot No. |



| | |
|---|---|
| 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 | Units | | | | | Dimension (unit mm³) | | |
|---|---|---|---|---|---|---|---|---|
| | 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 mm³) | | |
|---|---|---|---|---|---|---|---|---|
| | 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 |