

**BRGBJ3510**

Rev.A Apr.-2016

**DATA SHEET**

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Maximum Average Forward Current	$I_{(AV)}$	35	A
Peak forward surge current	$I_{FSM}$	400	A
I2t Rating for Fusing ( $t < 8.3ms$ )	I2t	510	A2s
Typical Junction Capacitance(Note1)	CJ	85	pF
Typical Thermal Resistance (Note2)	$R_{Jc}$	0.6	/W
Junction Temperature Range	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

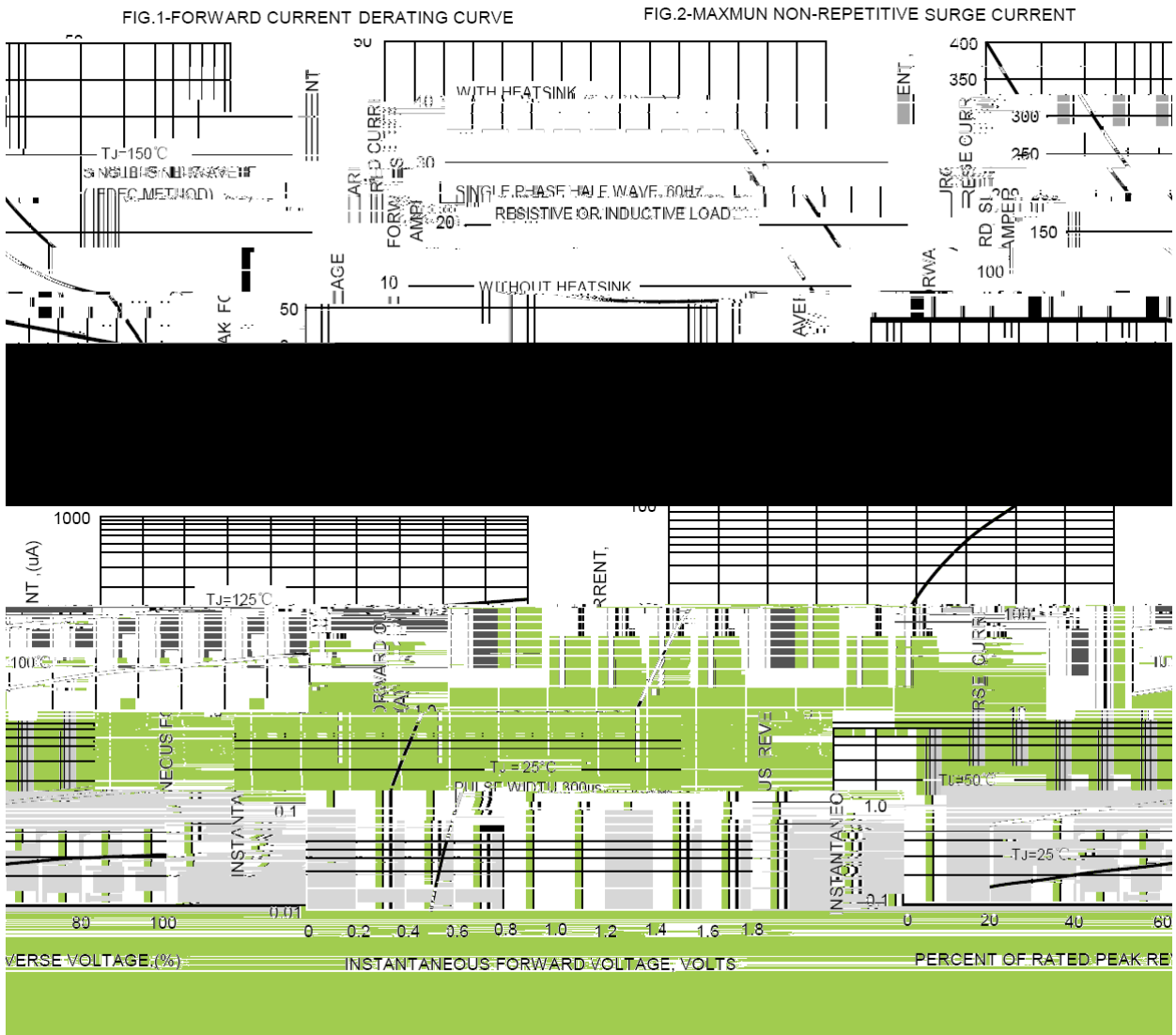
## NOTE:

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

2.Device mounted on 300mm\*300mm\*1.6mm cu plate heatsink.

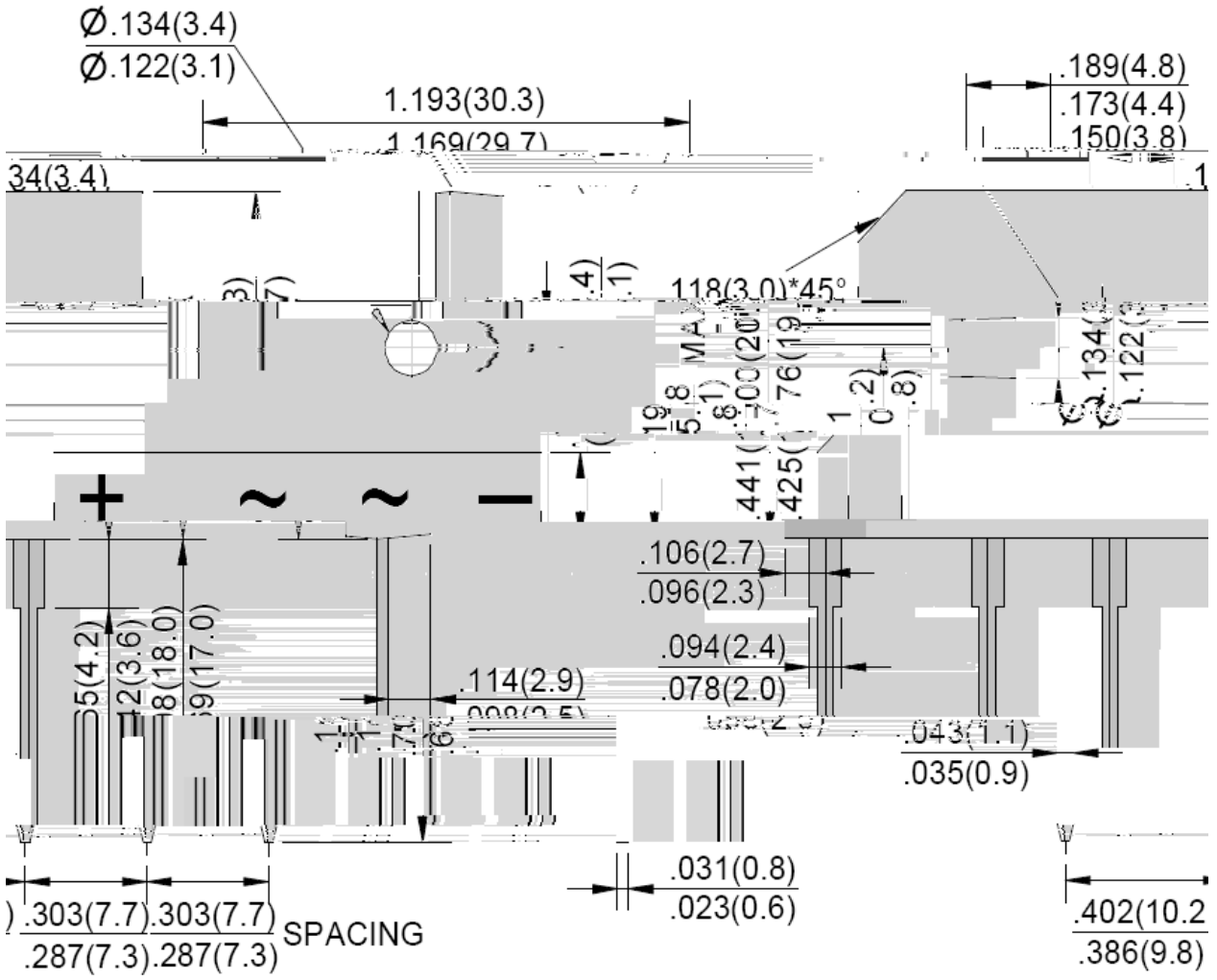
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	$V_R$	I R				

**/ Electrical Characteristic Curve**

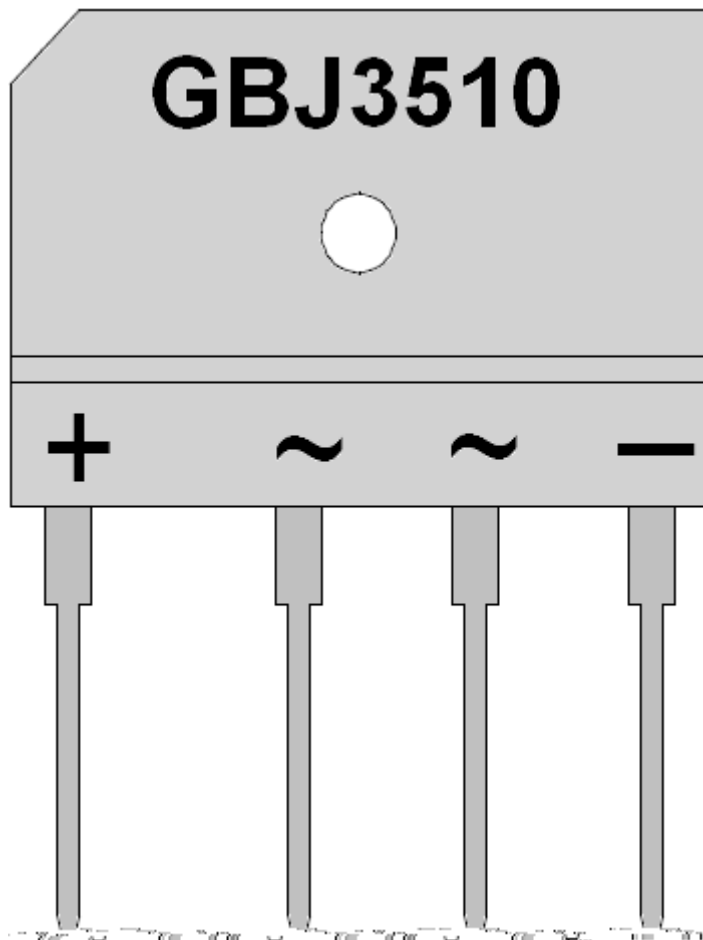


/ Package Dimensions

## GBJ



/ Marking Instructions



GBJ3510  
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**( ) / 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 <sup>3</sup> )		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
GBJ	-	-	250	8	2000	-	315×135×48	330×285×215

**/ TUBE**

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	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**