



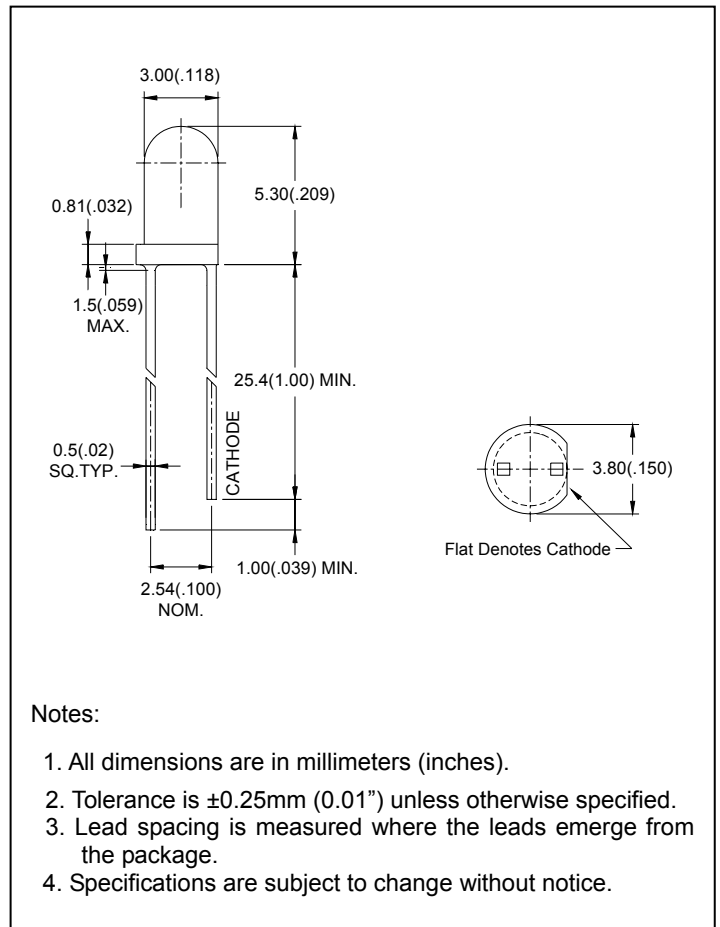
## ● Features:

1. Chip material: GaAsP/GaP
2. Emitted color : Yellow
3. Lens Appearance : Yellow Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3mm diameter package
9. This product don't contained restriction substance, compliance ROHS standard.

## ● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

## ● Package dimensions:



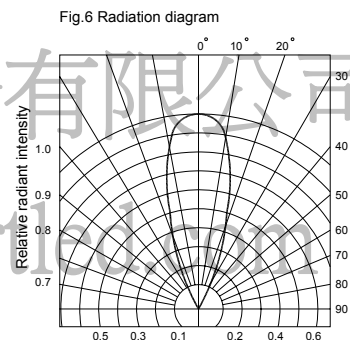
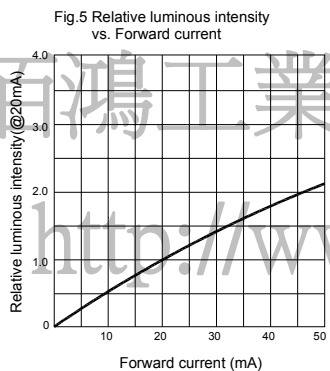
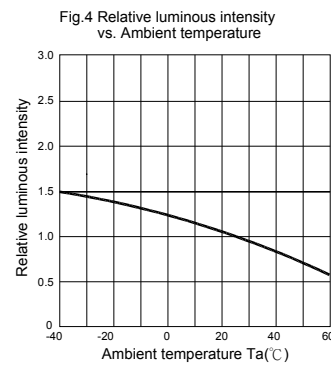
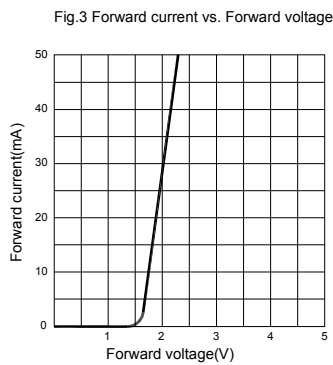
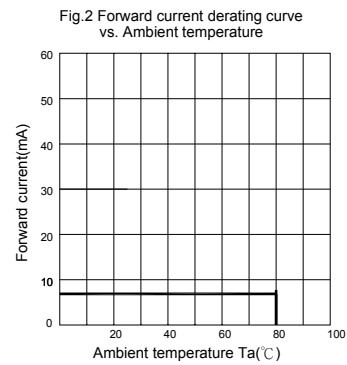
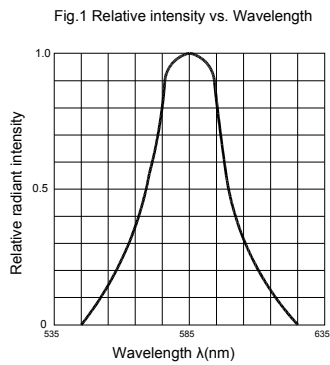
## ● Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	14	mW
Forward Current	I <sub>F</sub>	7	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>opr</sub>	-40°C~85°C	
Storage Temperature	T <sub>stg</sub>	-40°C~100°C	
Soldering Temperature	T <sub>sol</sub>	260°C (for 5 seconds)	

## ● Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=2mA	-	1.7	2.3	V
Luminous Intensity	Iv	IF=2mA	-	3.0	-	mcd
Reverse Current	IR	VR=5V	-	-	100	μA
Peak Wave Length	λ p	IF=2mA	-	585	-	nm
Dominant Wave Length	λ d	IF=2mA	582	-	595	nm
Spectral Line Half-width	Δ λ	IF=2mA	-	35	-	nm
Viewing Angle	2θ1/2	IF=2mA	-	35	-	deg

## ● Typical Electro-Optical Characteristics Curves



## ● Bin Limits

### 1. Intensity Bin Limits (At $I_F = 2\text{mA}$ )

Bin Code	Min. (mcd)	Max. (mcd)
D	1.0	1.6
E	1.6	2.4
F	2.4	3.7
G	3.7	5.5
H	5.5	8.2

## ● Bin : $x$



NOTES: 1. Tolerance of measurement of luminous intensity.

:  $\pm 15\%$

## ● Lead Frame Dipping

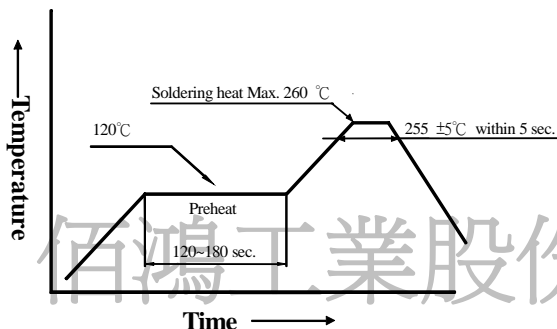
The LED Lead Frame are dipped by Sn in order to protect the rust. Also the dipping thickness is Max  $5\ \mu\text{m}$ . When soldering, leave 2.0mm of minimum clearance between the resin and the soldering point.

## ● DIP soldering (Wave Soldering)

**Preheating :  $120^\circ\text{C}$ , within 120~180 sec.**

**Operation heating :  $255^\circ\text{C} \pm 5^\circ\text{C}$  within 5 sec.  $260^\circ\text{C}$  (Max)**

**Gradual Cooling (Avoid quenching).**

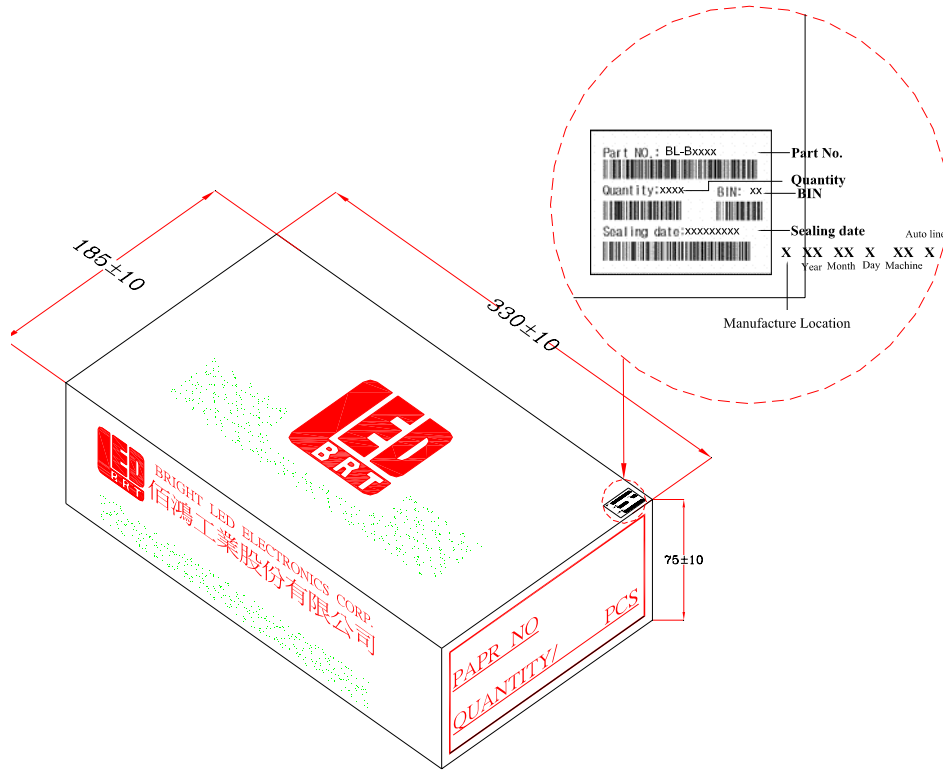


## ● Caution on usage

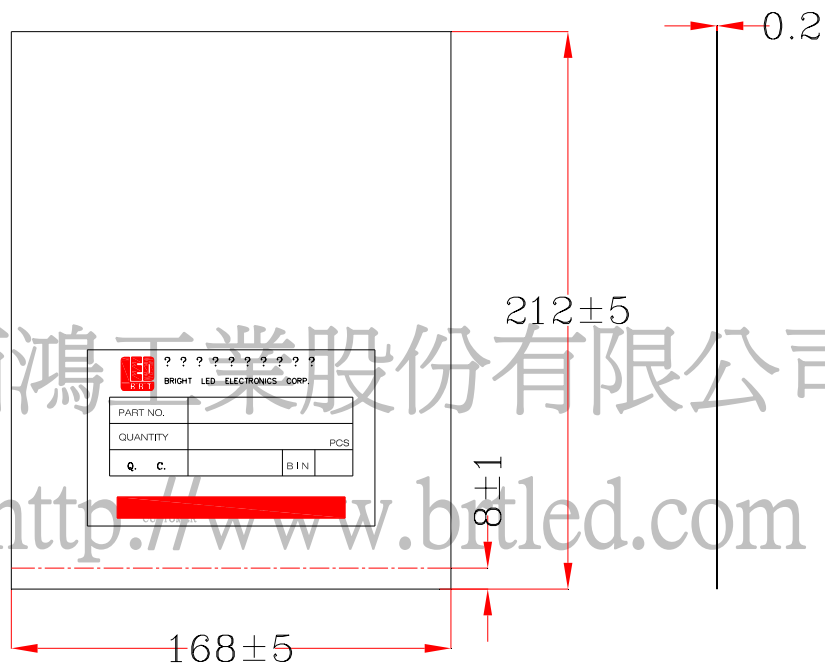
1. Be careful never to exceed, even momentarily, the absolute maximum ratings specified in the data sheet.
2. BRT will not be held responsible for any damage to the user that may result from accidents or any other reasons during operation of the user's unit if use to exceed the absolute maximum ratings, or not keep the matters that demand special attention.
3. Store and use where there is no corrosive gas.

## ● PACKAGING DIMMENSIONS

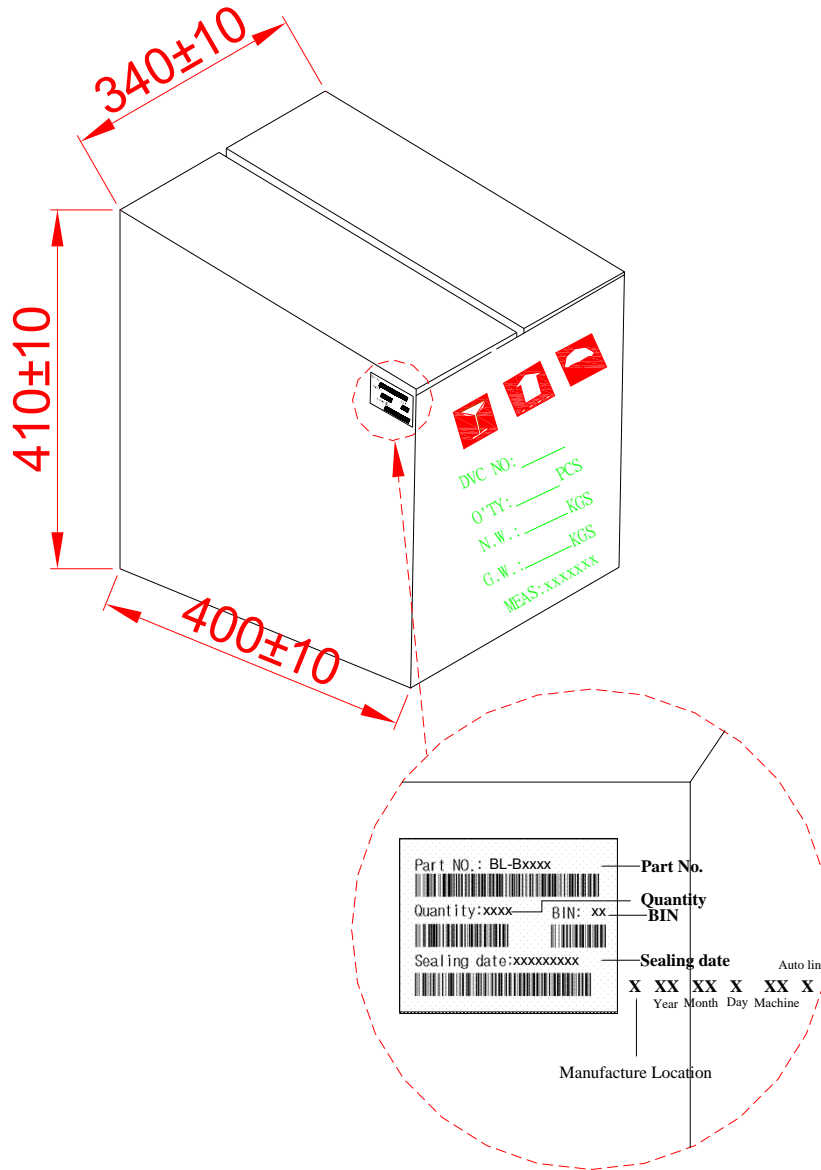
### 1. PACKAGING BOX DIMENSIONS:



### 2. PACKAGING BAG DIMENSIONS



### 3.PACKAGING CARTON DIMENSIONS



**NOTES:**

1. 1000PCS PER BAG, 10K PCS PER BOX, 100KPCS PER CARTON
2. ALL Dimensions are in millimeters (inches).
3. Specifications are subject to change without notice.

<http://www.brtled.com>