



BRIGHT LED ELECTRONICS CORP.

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 Revision: 1.1

● Device Number : BIR-B00331

| Sheet Date | 1 | 2 | 3 | 4 | 5 | | | | | | | Contents |
|---------------|-----|-----|-----|-----|-----|--|--|--|--|--|--|---|
| 2002.05.18 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | | | | | Initial Released |
| 2002.11.19 | 1.1 | 1.1 | 1.1 | 1.1 | - | | | | | | | Date、Ee、Tr、Tf、V _F 、 Notes、FIG.2 |
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| Approved | Drawn |
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●Absolute Maximum Rating($T_a=25^{\circ}\text{C}$)

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| Item | Symbol | Rating | Unit |
|---------------------------|-----------|------------|--------------------|
| Reverse Voltage | V_r | 5 | V |
| Reverse Current | I_r | 100 | μA |
| Power Dissipation | P_d | 75 | mW |
| Forward Current | I_f | 100 | mA |
| Peak Forward Current(*1) | I_{fp} | 1.0 | A |
| Operating Temperature | T_{opr} | -45 ~ +85 | $^{\circ}\text{C}$ |
| Storage Temperature | T_{stg} | -45 ~ +100 | $^{\circ}\text{C}$ |
| Soldering Temperature(*2) | T_{sol} | 250 | $^{\circ}\text{C}$ |

(*1)、Pulse Width= $10\mu\text{s}$,10%Duty Cycle

(*2)、For 5 Sec

●Electrical And Optical Characteristics($T_a=25^{\circ}\text{C}$)

| Parameter | Symbol | Condition | Min. | Typ. | Max. | Unit |
|--------------------------|-----------------|---|------|------|------|-------------------------|
| Forward Voltage | V_f | $I_f=50\text{mA}$ | — | 1.4 | 1.7 | V |
| Spectral Line Half-Width | $\Delta\lambda$ | $I_f=20\text{mA}$ | — | 50 | — | nm |
| Radiant Power | E_e | $I_f=50\text{mA}$ | 1.6 | 4.5 | — | mW/cm^2 |
| Viewing Angle | $2\theta_{1/2}$ | $I_f=20\text{mA}$ | — | 30 | — | deg |
| Peak Wavelength | λ_p | $I_f=20\text{mA}$ | — | 850 | — | nm |
| Rise Time | T_r | $I_{fp}=20\text{mA}, R_L=1\text{k}\Omega$ | — | 20 | — | ns |
| Fall Time | T_f | | — | 20 | — | ns |

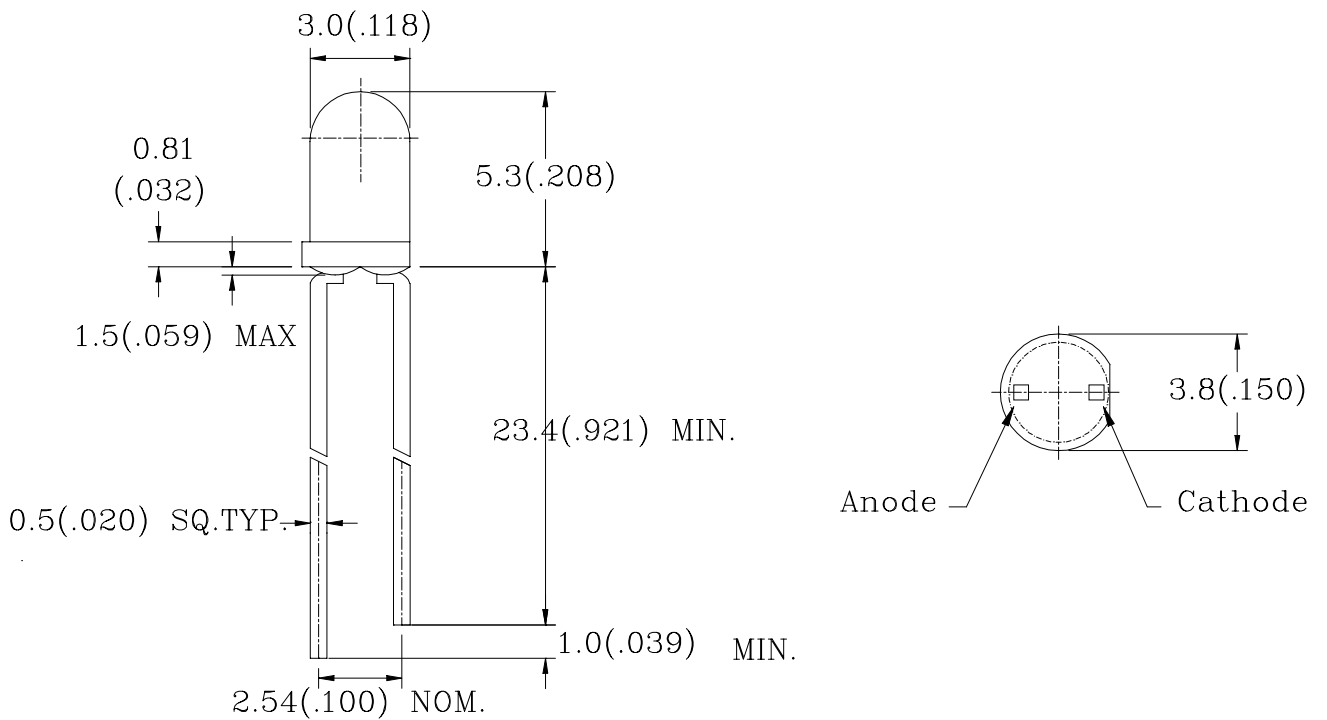
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●Dimensions

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Notes:

- 1、All dimensions are in millimeters(inches).
- 2、Tolerance is $\pm 0.25\text{mm}(0.01\text{'})$ unless otherwise specified.
- 3、Lead spacing is measured where the leads emerge from the package.
- 4、Specifications are subject to change without notice.
- 5、Lens appearance: water clear.

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● Electrical And Optical Curves (Ta=25°C)

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FIG.1 Spectral Distribution

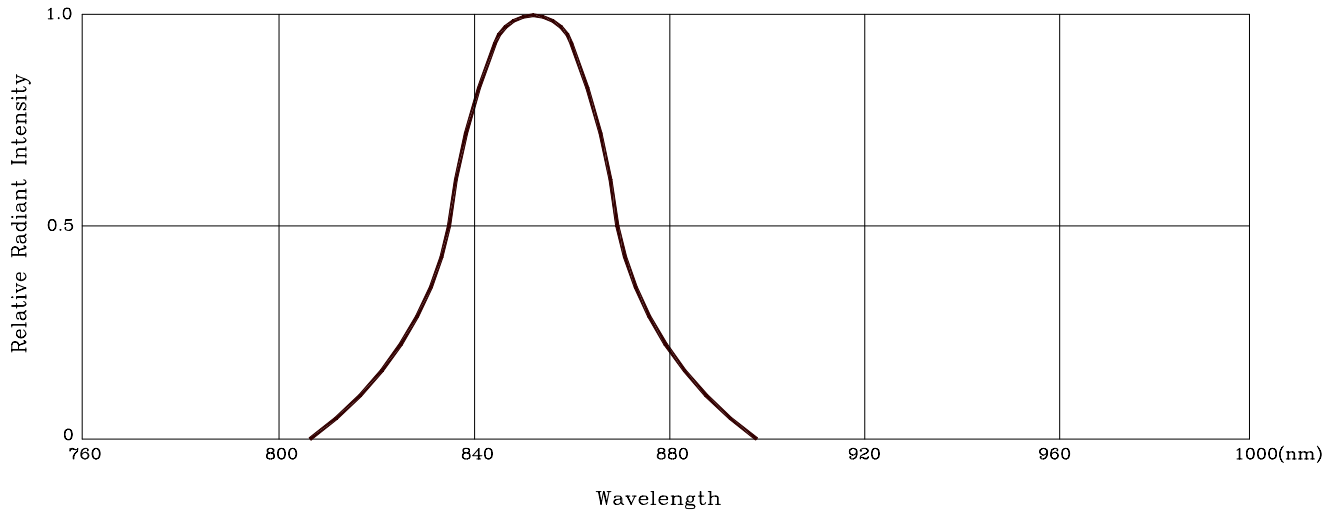


FIG.2 Forward Current Vs. Forward Voltage

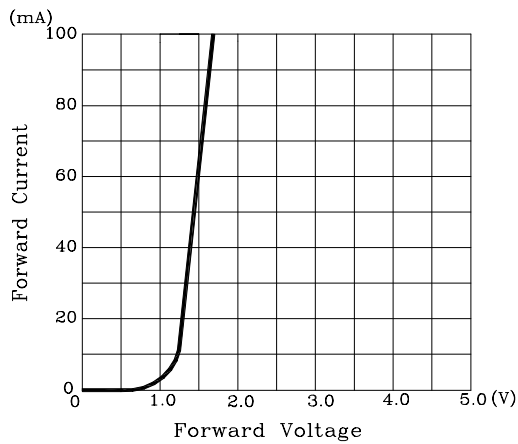


FIG.3 Relative Radiant Intensity Vs. Ambient Temperature

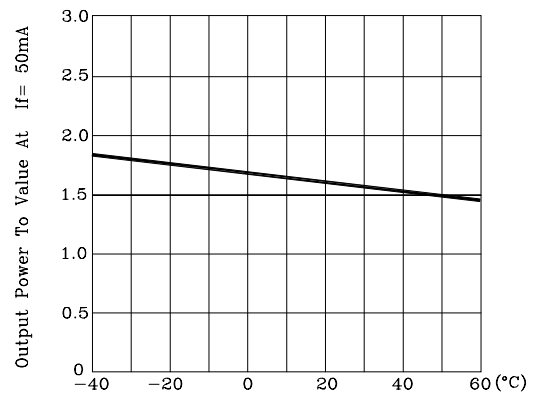


FIG.4 Relative Radiant Vs. Forward Current

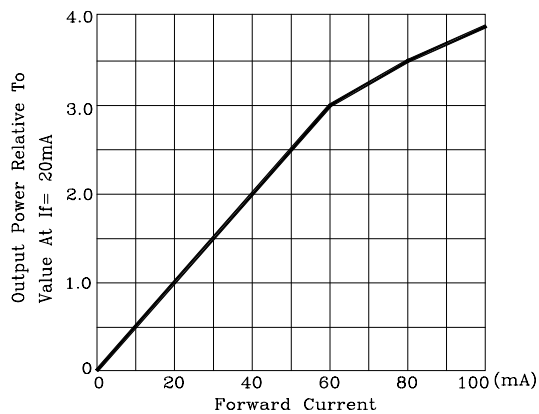
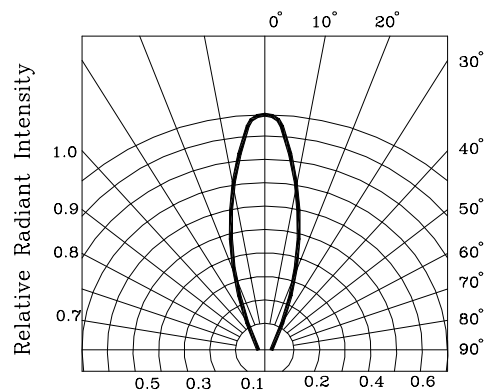


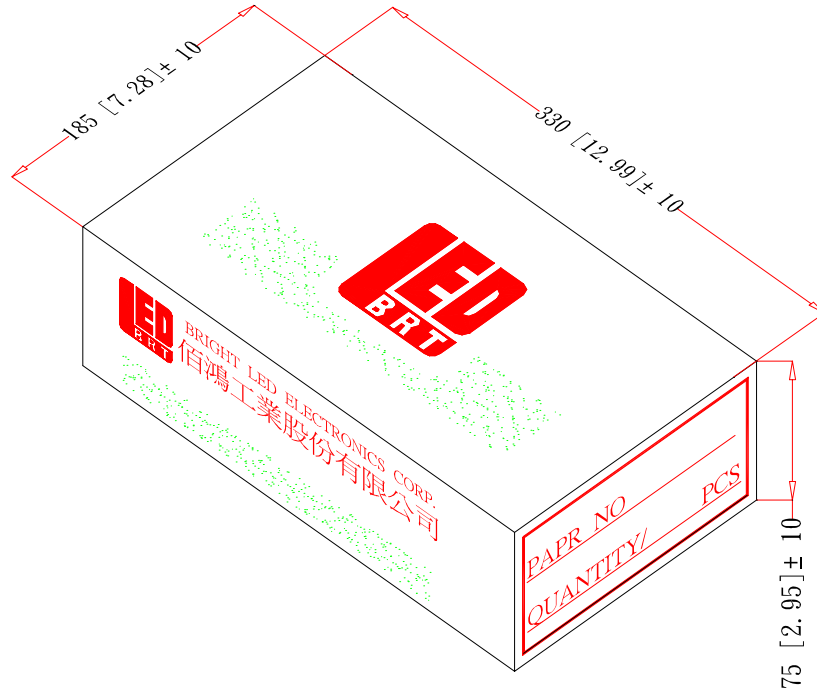
FIG.5 Radiant Diagram



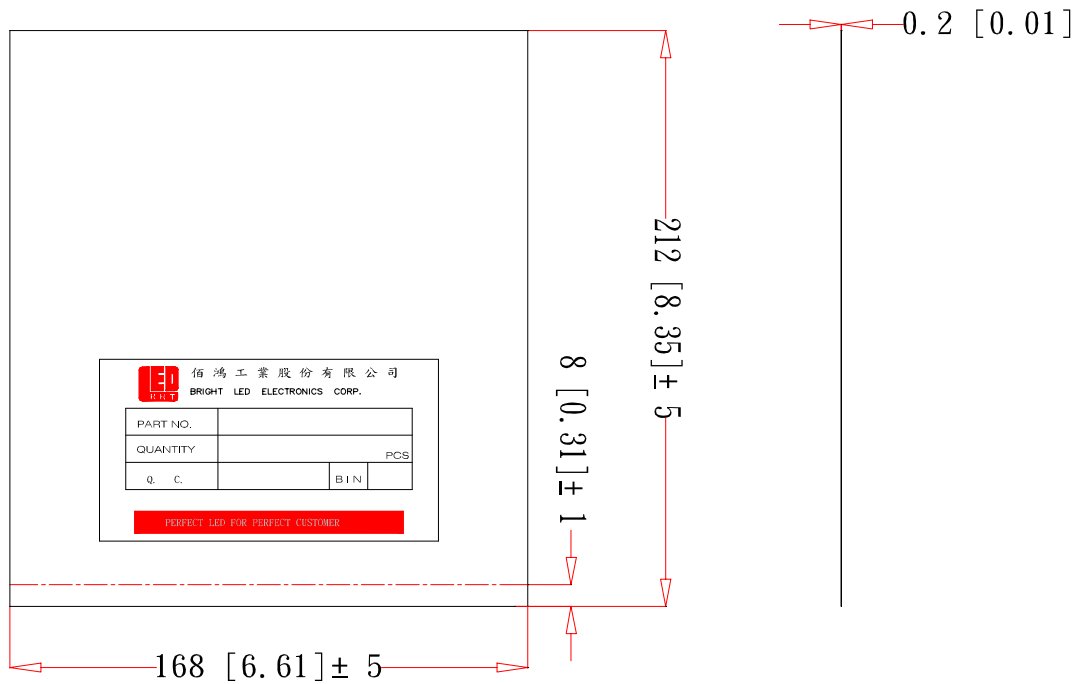
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- Device Number:BIR-B00331
- Packaging Box Dimensions

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- Packaging Bag Dimensions



Notes:

- 1、1Kpcs per bag, 8Kpcs per box.
- 2、All dimensions are in millimeters(inches).
- 3、Specifications are subject to change without notice.