

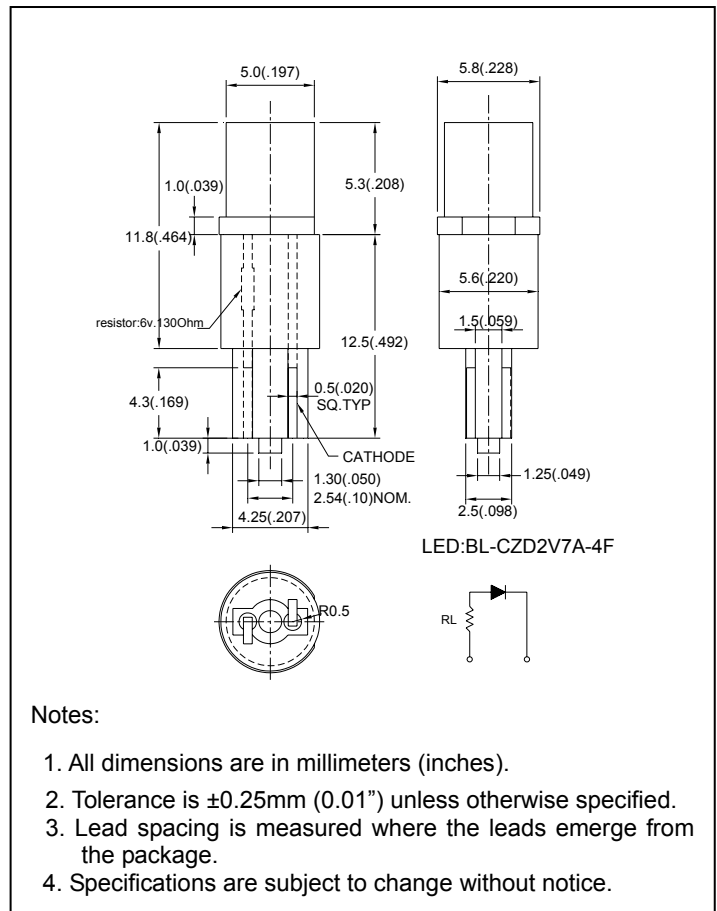
### ● Features:

1. Chip material: InGaN
2. Emitted color : White
3. Lens Appearance : White Diffused
4. For DC and pulse operation.
5. With current limiting resistor for 06V
6. TTL & CMOS compatible.
7. Reliable and rugged.
8. Internal Resistor 130Ω
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              | 120                   | mW   |
| Peak Forward Current*1 | I <sub>FP</sub> | 150                   | mA   |
| Operating Temperature  | Topr            | -40°C~80°C            |      |
| Storage Temperature    | Tstg            | -40°C~85°C            |      |
| Soldering Temperature  | Tsol            | 260°C (for 5 seconds) |      |

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

| Parameter                         | Symbol           | Condition  | Min. | Typ. | Max. | Unit |
|-----------------------------------|------------------|------------|------|------|------|------|
| Forward Current                   | $I_F$            | $V_F=6V$   | -    | 8    | 12   | mA   |
| Luminous Intensity                | $I_v$            | $V_F=6V$   | -    | 400  | -    | mcd  |
| Chromatically Coordinates(note 4) | X                | $I_F=20mA$ | -    | 0.32 | -    | nm   |
|                                   | Y                | $I_F=20mA$ | -    | 0.31 | -    | nm   |
| Spectral Line Half-width          | $\Delta \lambda$ | $V_F=6V$   | -    | 30   | -    | nm   |
| Viewing Angle                     | $2\theta_{1/2}$  | $V_F=6V$   | -    | 85   | -    | deg  |

● **Typical electro-optical characteristics curves**

Fig.1 Relative intensity vs. Wavelength

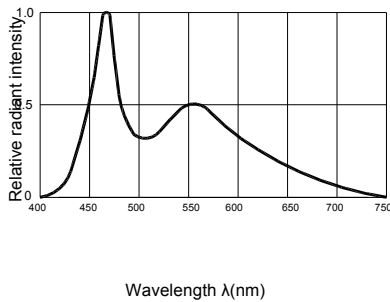


Fig.2 Forward current derating curve vs. Ambient temperature

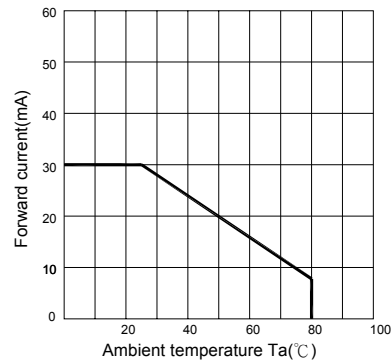


Fig.4 Relative luminous intensity vs. Ambient temperature

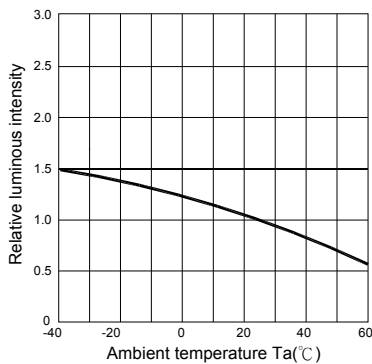
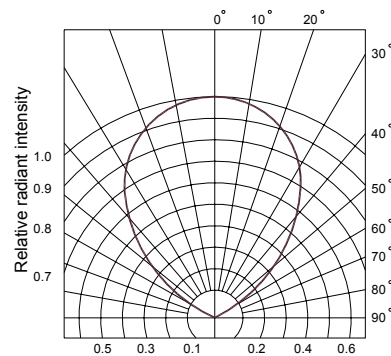


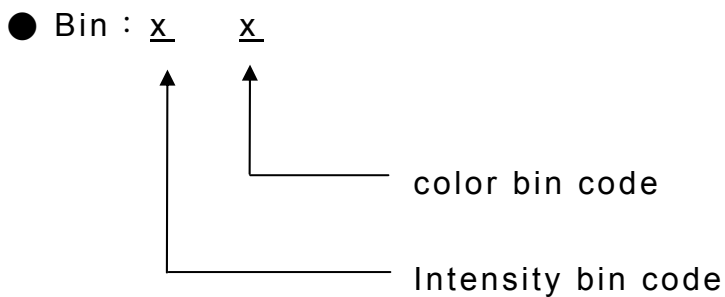
Fig.6 Radiation diagram



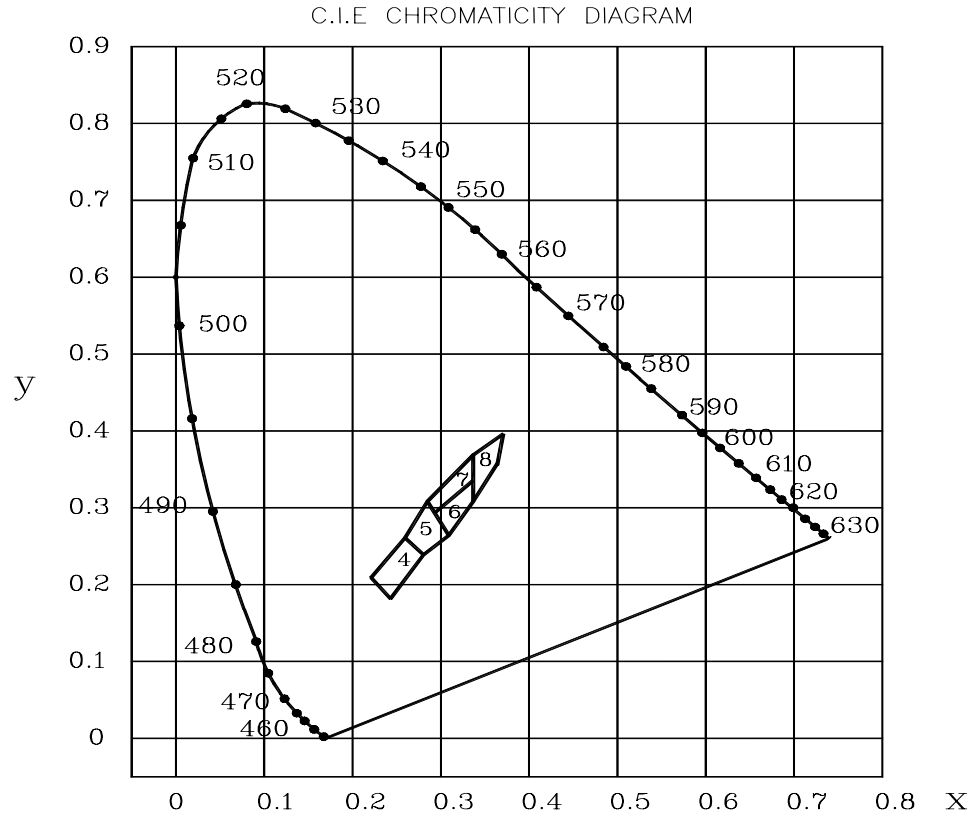
● **Bin Limits**

1. Intensity bin limits (At  $I_F = 20\text{mA}$ )

| Bin Code | Min. (mcd) | Max. (mcd) |
|----------|------------|------------|
| :        | :          | :          |
| R        | 120        | 240        |
| S        | 180        | 360        |
| T        | 280        | 550        |
| U        | 410        | 820        |
| V        | 620        | 1230       |
| :        | :          | :          |



## 2. Color Bin Limits (nm at 20mA)



| Bin | Chromaticity coordinates |       |       |       |       |
|-----|--------------------------|-------|-------|-------|-------|
|     | x                        | y     | x     | y     |       |
| 4   | x                        | 0.245 | 0.225 | 0.260 | 0.279 |
|     | y                        | 0.190 | 0.215 | 0.262 | 0.242 |
| 5   | x                        | 0.279 | 0.260 | 0.283 | 0.305 |
|     | y                        | 0.242 | 0.262 | 0.305 | 0.265 |
| 6   | x                        | 0.305 | 0.287 | 0.330 | 0.330 |
|     | y                        | 0.265 | 0.295 | 0.339 | 0.305 |
| 7   | x                        | 0.287 | 0.283 | 0.330 | 0.330 |
|     | y                        | 0.295 | 0.305 | 0.360 | 0.339 |
| 8   | x                        | 0.330 | 0.330 | 0.361 | 0.356 |
|     | y                        | 0.305 | 0.360 | 0.385 | 0.351 |