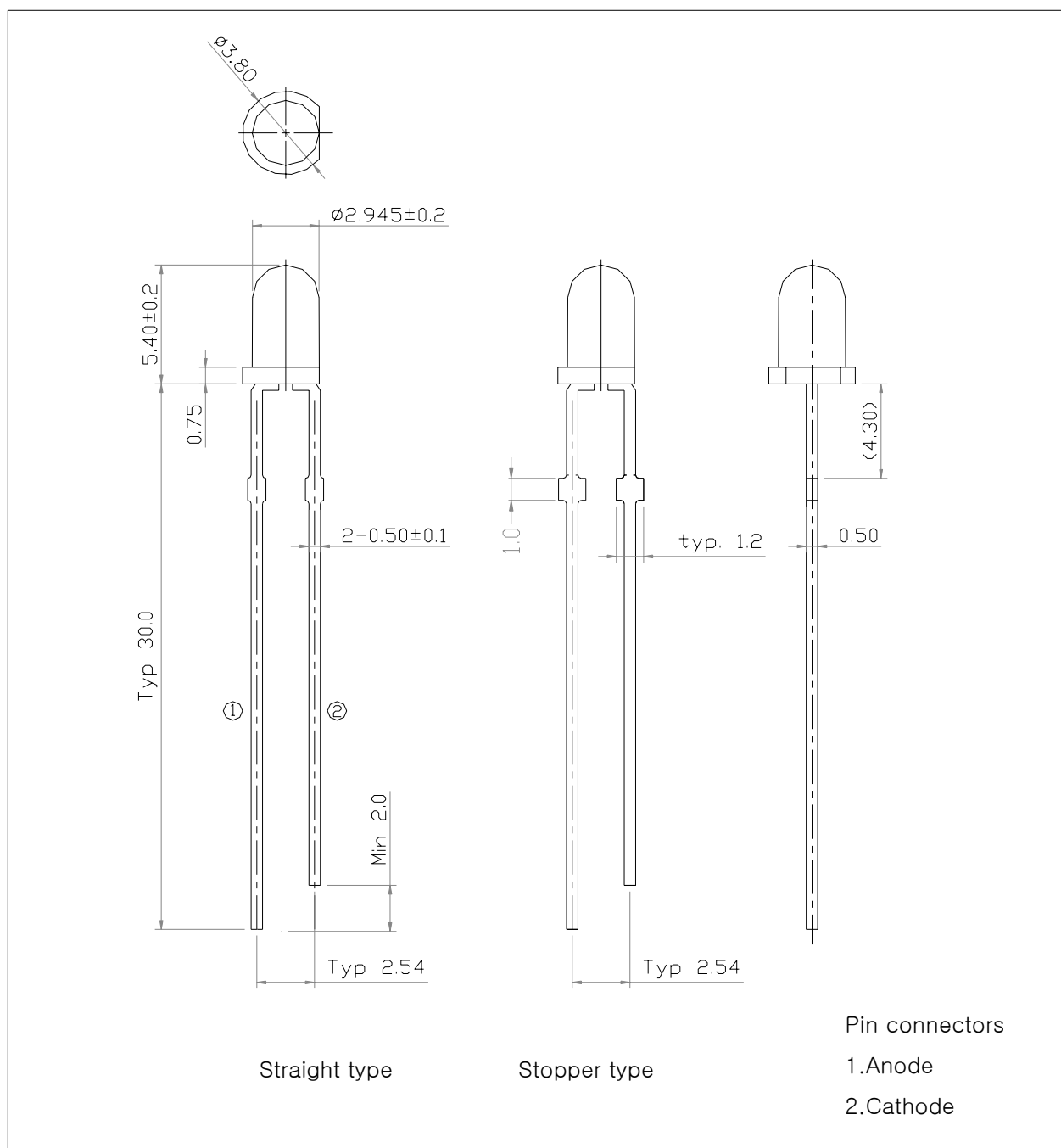


## ■ Features

- Colorless transparency lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- High luminosity

## ■ Outline dimensions

(unit : mm)



## ■ Absolute maximum ratings

| Characteristic                       | Symbol    | Ratings             | Unit |
|--------------------------------------|-----------|---------------------|------|
| Power dissipation                    | $P_D$     | 75                  | mW   |
| Forward Current                      | $I_F$     | 30                  | mA   |
| * <sup>1</sup> Peak Forward Current  | $I_{FP}$  | 100                 | mA   |
| Reverse Voltage                      | $V_R$     | 5                   | V    |
| Operating Temperature                | $T_{opr}$ | -30~85              | °C   |
| Storage Temperature                  | $T_{stg}$ | -40~100             | °C   |
| * <sup>2</sup> Soldering Temperature | $T_{sol}$ | 260°C for 3 seconds |      |

\*1.Duty ratio = 1/16, Pulse width = 0.1ms

\*2.Keep the distance more than 2.0mm from PCB to the bottom of LED package

## ■ Electrical – Optical Characteristics

( $T_a=25^\circ\text{C}$ )

| Characteristic            | Symbol          | Test Condition    | Min. | Typ.     | Max. | Unit |
|---------------------------|-----------------|-------------------|------|----------|------|------|
| Forward Voltage           | $V_F$           | $I_F=20\text{mA}$ | –    | 2.0      | 2.5  | V    |
| Dominant Wavelength       | $\lambda_p$     | $I_F=20\text{mA}$ | –    | 621      | –    | nm   |
| Spectrum Bandwidth        | $\Delta\lambda$ | $I_F=20\text{mA}$ | –    | 25       | –    | nm   |
| Reverse Current           | $I_R$           | $V_R=5\text{V}$   | –    | –        | 10   | uA   |
| * <sup>3</sup> Half Angle | $\theta_{1/2}$  | $I_F=20\text{mA}$ | –    | $\pm 17$ | –    | deg  |

\*3.  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity

## ■ Luminous intensity ranks

(Ta=25℃)

| Iv RANK | Test Condition        | Min. | Typ. | Max. | Unit |
|---------|-----------------------|------|------|------|------|
| P       | I <sub>F</sub> = 20mA | 1200 | –    | 1700 | mcd  |
| Q       |                       | 1700 | –    | 2400 |      |
| R       |                       | 1700 | –    | 2400 |      |
| S       |                       | 2400 | –    | 3400 |      |

\* Luminous intensity is tested at a current pulse duration of 25 ms and an accuracy of ±11%.

Intensity Measured : 0.01sr(CIE. LED\_B)

## ■ Precautions On LED using

\* To avoid optical difference, Please do not mix differently-ranked product.

## ■ Characteristic Diagrams

Fig. 1  $I_F$ - $V_F$

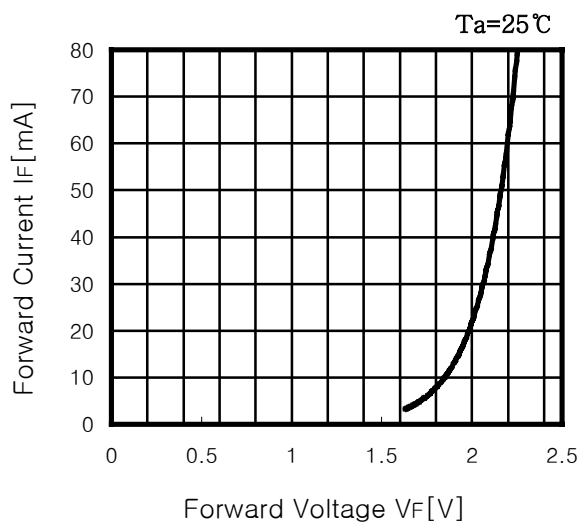


Fig. 2  $I_v$ - $I_F$

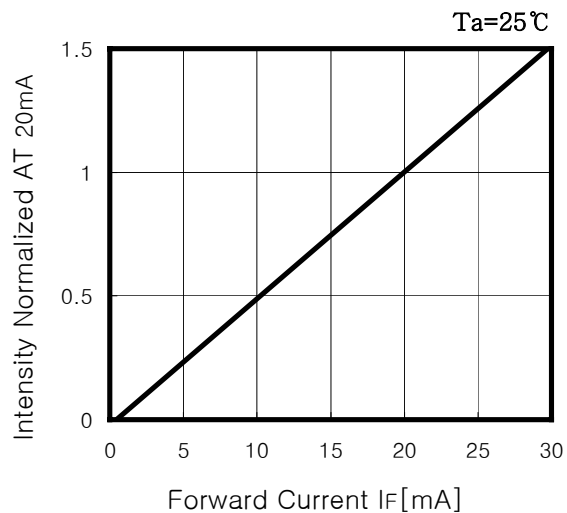


Fig. 3 Spectrum Distribution

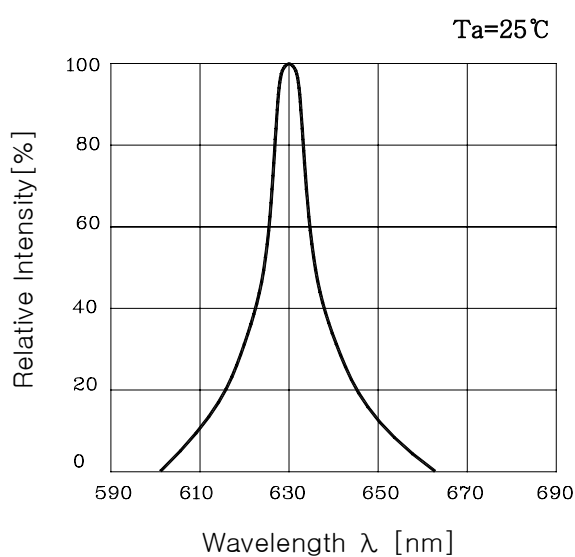


Fig. 4 Relative Intensity- $T_a$

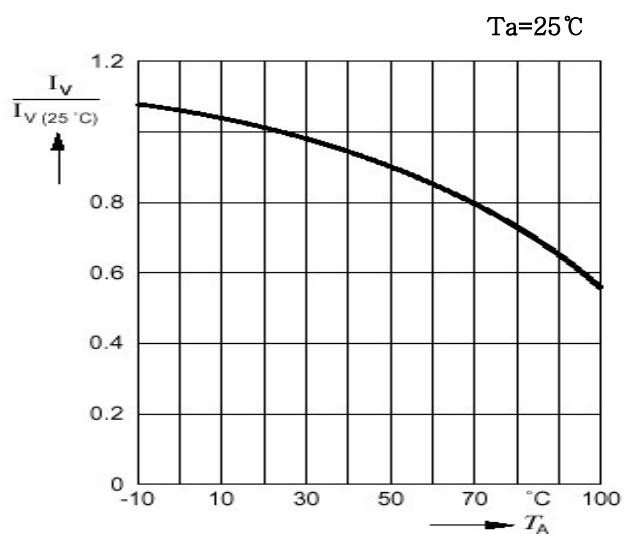
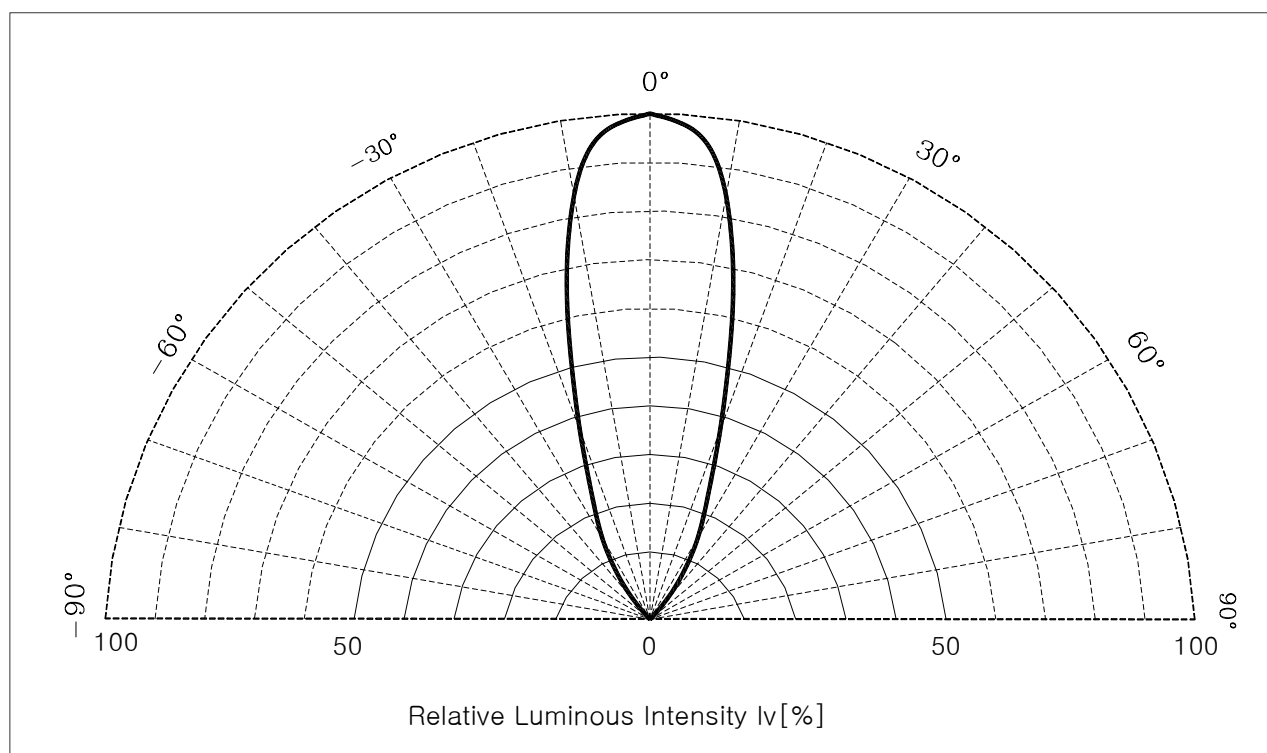


Fig. 5 Radiation Diagram



[illegible]