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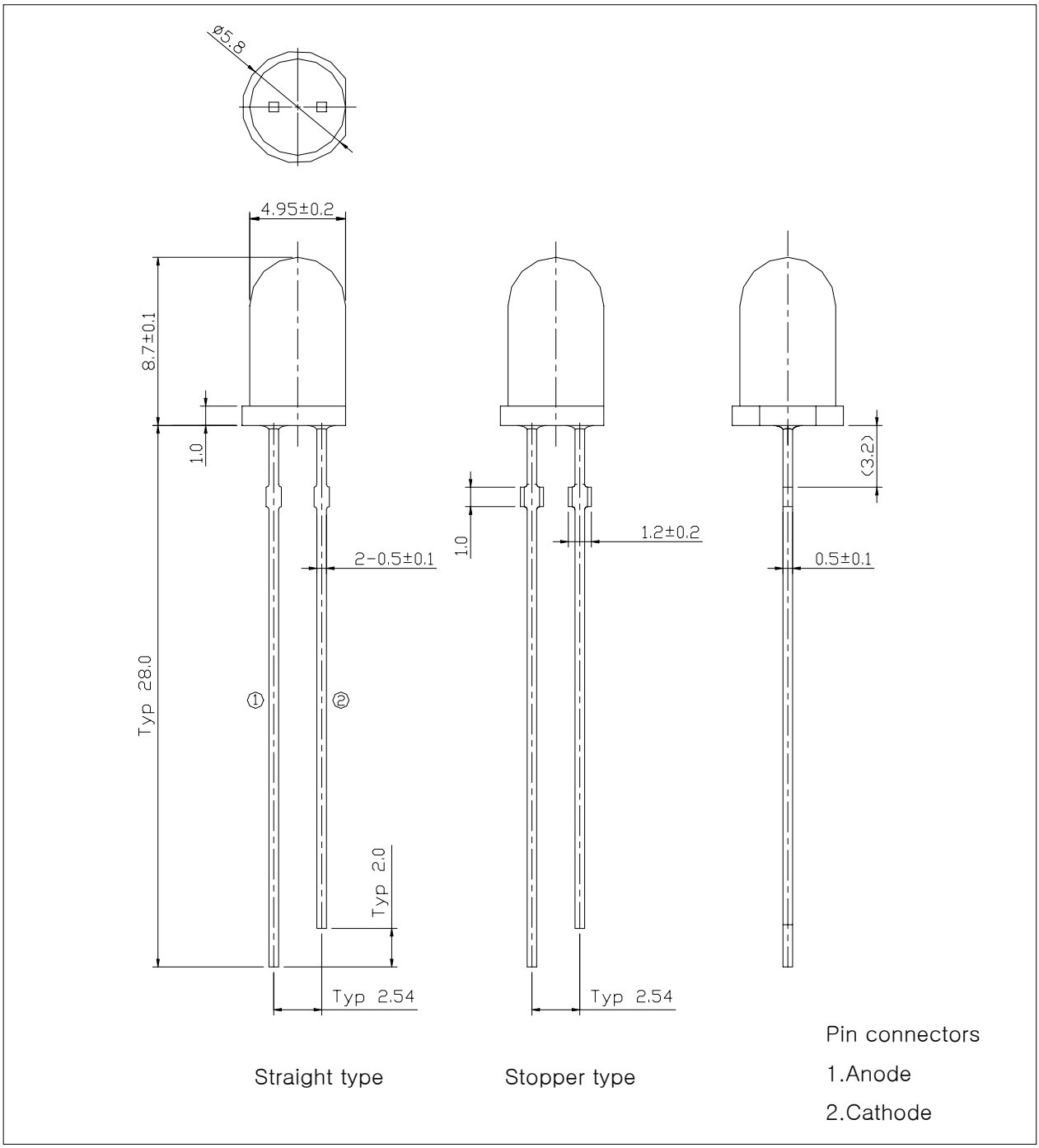
## ■ Features

- Colored transparency lens type
- ϕ5mm(T-1¾) all plastic mold type
- High Luminosity

## ■ Outline dimensions

(unit : mm)



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## ■ Absolute Maximum Ratings

(Ta=25℃)

| Characteristic | Symbol | Ratings | Unit |
|---|---|---|---|
| Power Dissipation | $P_D$ | 75 | mW |
| Forward Current | $I_F$ | 30 | mA |
| *[1]Peak Forward Current | $I_{FP}$ | 100 | mA |
| Reverse Voltage | $V_R$ | 5 | V |
| Operating Temperature | $T_{opr}$ | −30 ~ +85 | ℃ |
| Storage Temperature | $T_{stg}$ | −40 ~ +100 | ℃ |
| *[2]Soldering Temperature | $T_{sol}$ | 260℃ for 3 seconds | |

*1.Duty ratio ≦ 1/10, Pulse Width ≦ 10msec

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

## ■ Electrical – Optical Characteristics

(Ta=25℃)

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Forward Voltage | $V_F$ | $I_F$= 20mA | – | 1.9 | 2.2 | V |
| Dominant Wavelength | $\lambda_D$ | $I_F$= 20mA | – | 645 | – | nm |
| Spectrum Bandwidth | $\Delta\lambda$ | $I_F$= 20mA | – | 20 | – | nm |
| Reverse Current | $I_R$ | $V_R$=5V | – | – | 10 | Ua |
| *[3]Half Angle | θ1/2 | $I_F$= 20mA | – | ±10 | – | deg |

*3. θ1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

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## ■ Luminous intensity ranks

(Ta=25℃)

| Iv RANK | Test Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|
| P | $I_F$= 20mA | 1200 | - | 1700 | mcd |
| Q | | 1700 | - | 2400 | |
| R | | 2400 | - | 3400 | |
| S | | 3400 | - | 4800 | |

* 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.

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## ■ Characteristic Diagrams

Fig. 1 IF-VF

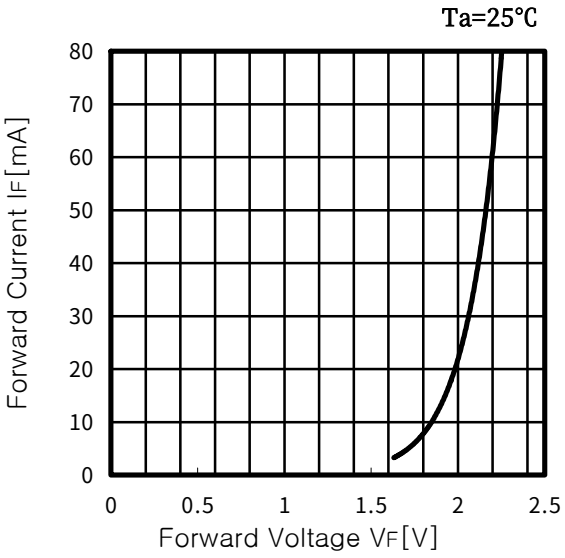



Fig. 2 Iv-IF

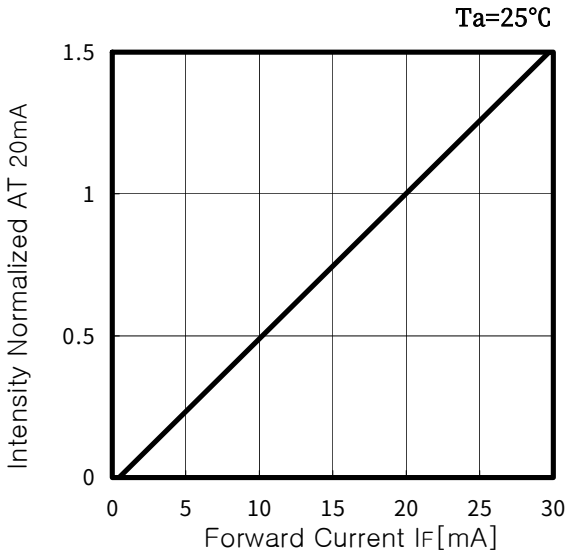



Fig. 3 IF-Ta

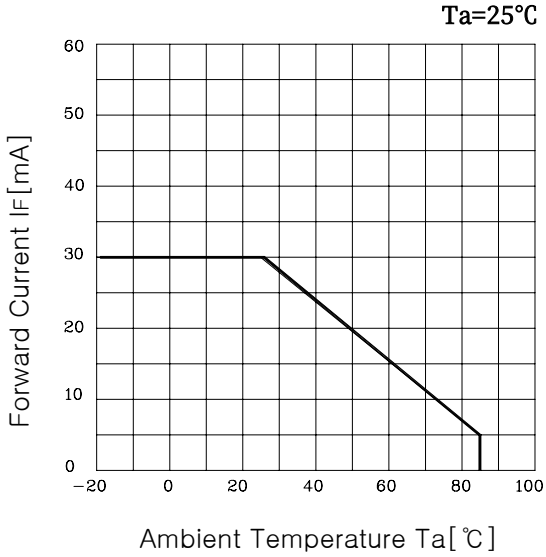



Fig. 4 Spectrum Distribution

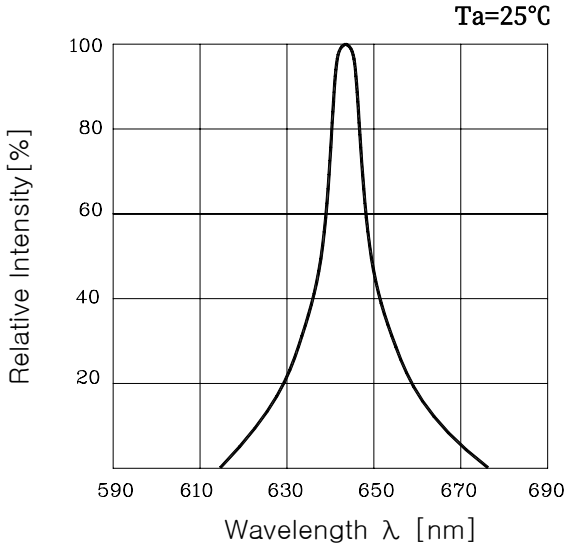
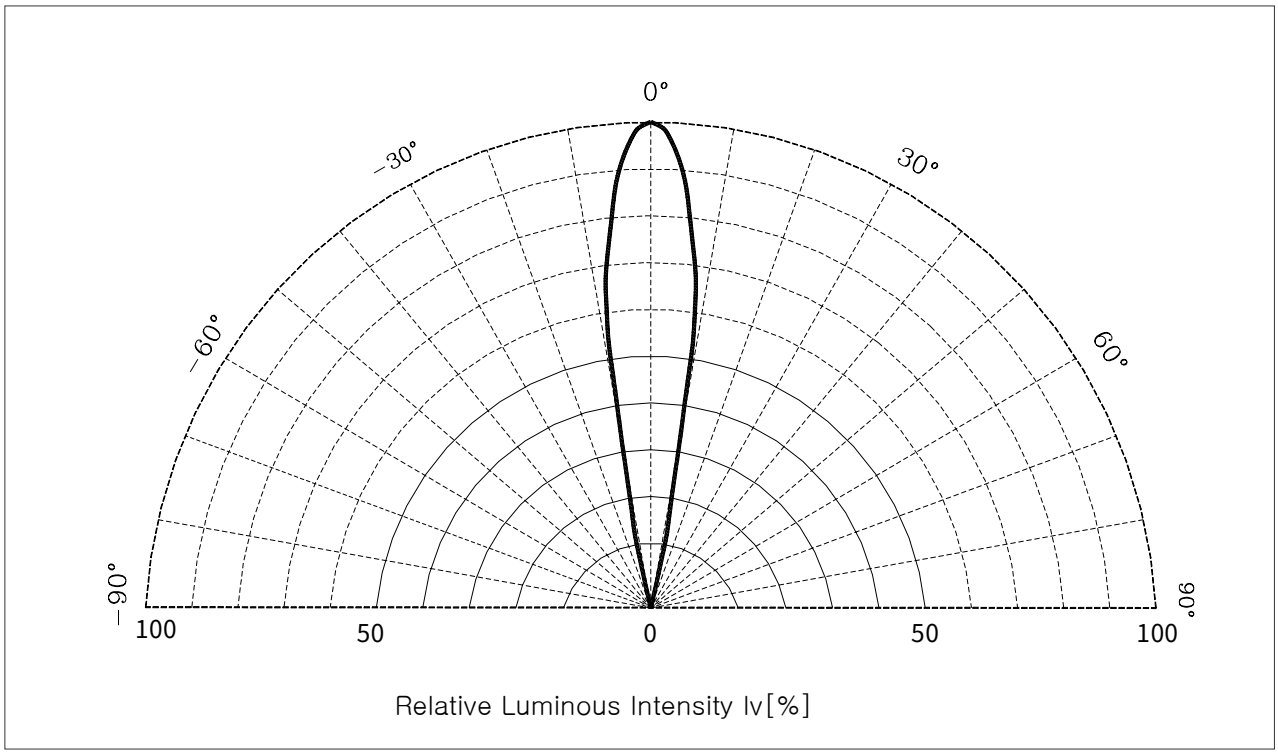


Fig. 4 Radiation Characteristics



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## ■ Revision history sheet

| Spec NO. | | | |
|---|---|---|---|
| Title | Specification for Approval | | |
| Times | Date | Summary of revision | Remarks |
| 1 | 2001. 07. 15 | 신규제정 | |
| 2 | 2003. 02. 26 | Format 변경 | |
| 3 | 2004. 06. 03 | Iv Rank 변경 | |