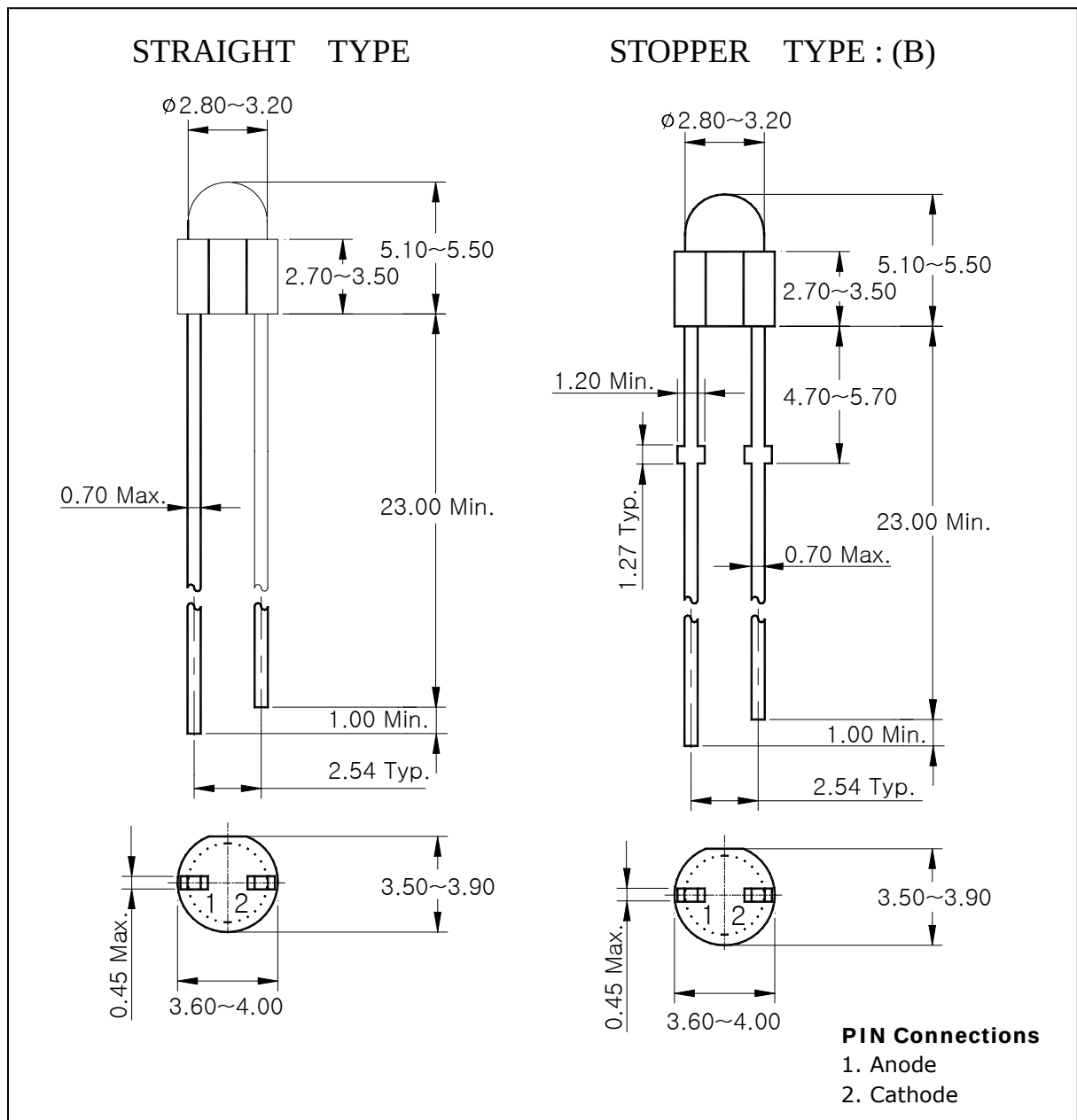


## 1. Features

- ◆ Orange colored diffusion lens type
- ◆  $\phi 3\text{mm}$ (T-1)all plastic mold type
- ◆ Low power consumption

## 2. Outline Dimensions

unit : mm



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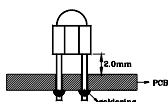
## 3. Absolute Maximum Ratings

(Ta=25°C)

| Characteristic              | Symbol    | Ratings              | Unit |
|-----------------------------|-----------|----------------------|------|
| Power dissipation           | $P_D$     | 80                   | mW   |
| Forward current             | $I_F$     | 30                   | mA   |
| *1Peak forward current      | $I_{FP}$  | 50                   | mA   |
| Reverse voltage             | $V_R$     | 4                    | V    |
| Operating temperature range | $T_{opr}$ | -25 ~ 85             | °C   |
| Storage temperature range   | $T_{stg}$ | -30 ~ 100            | °C   |
| *2Soldering temperature     | $T_{sol}$ | 260°C for 10 seconds | °C   |

\*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



## 4. Electrical / Optical Characteristics

(Ta=25°C)

| Characteristic       | Symbol          | Test Condition      | Min. | Typ.     | Max. | Unit |
|----------------------|-----------------|---------------------|------|----------|------|------|
| Forward voltage      | $V_F$           | $I_F = 20\text{mA}$ | -    | 2.1      | 2.5  | V    |
| *3Luminous intensity | $I_V$           | $I_F = 20\text{mA}$ | 17   | -        | 68   | mcd  |
| Peak wavelength      | $\lambda_P$     | $I_F = 20\text{mA}$ | -    | 615      | -    | nm   |
| Spectrum bandwidth   | $\Delta\lambda$ | $I_F = 20\text{mA}$ | -    | 35       | -    | nm   |
| Reverse current      | $I_R$           | $V_R = 4\text{V}$   | -    | -        | 10   | uA   |
| *4Half angle         | $\theta_{1/2}$  | $I_F = 20\text{mA}$ | -    | $\pm 22$ | -    | deg  |

\*4.  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity\*3. Luminous intensity maximum tolerance for each grade classification limit is  $\pm 18\%$ 

\*3. Luminous Intensity Classification

| H       | I       | J       |
|---------|---------|---------|
| 17 ~ 27 | 27 ~ 43 | 43 ~ 68 |

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## 5. Characteristic Diagrams

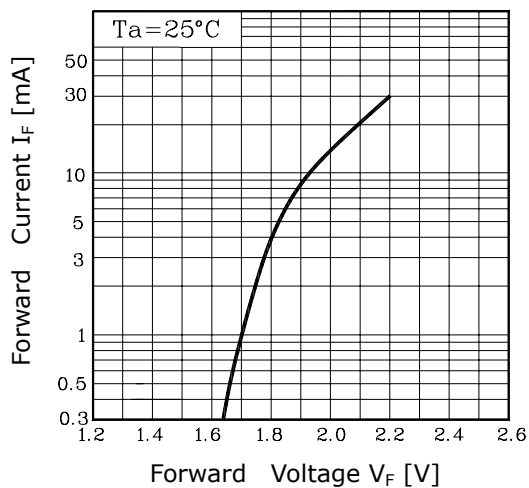
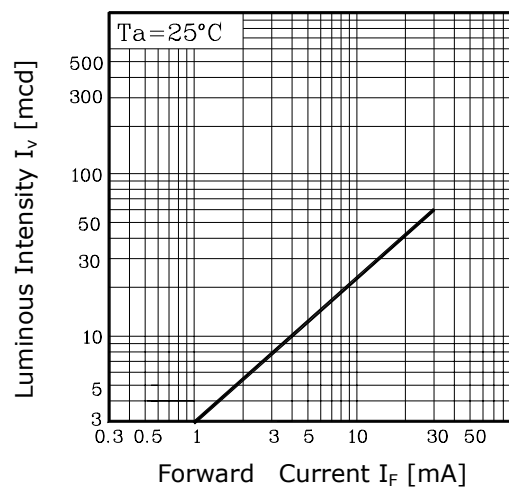
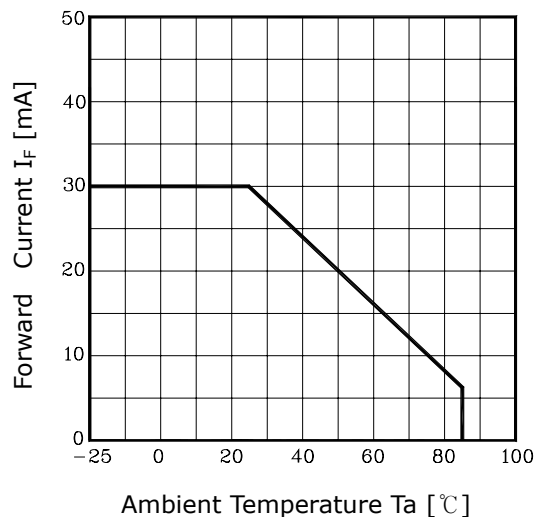
Fig. 1  $I_F - V_F$ Fig. 2  $I_V - I_F$ Fig. 3  $I_F - T_a$ 

Fig. 4 Spectrum Distribution

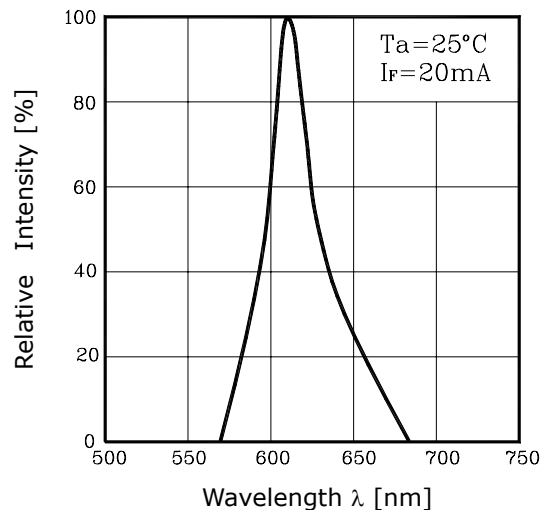
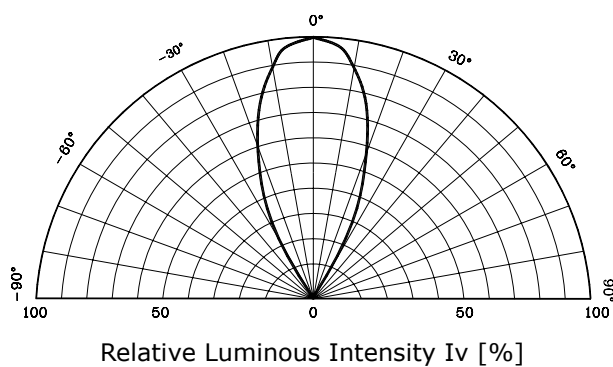


Fig. 5 Radiation Diagram



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