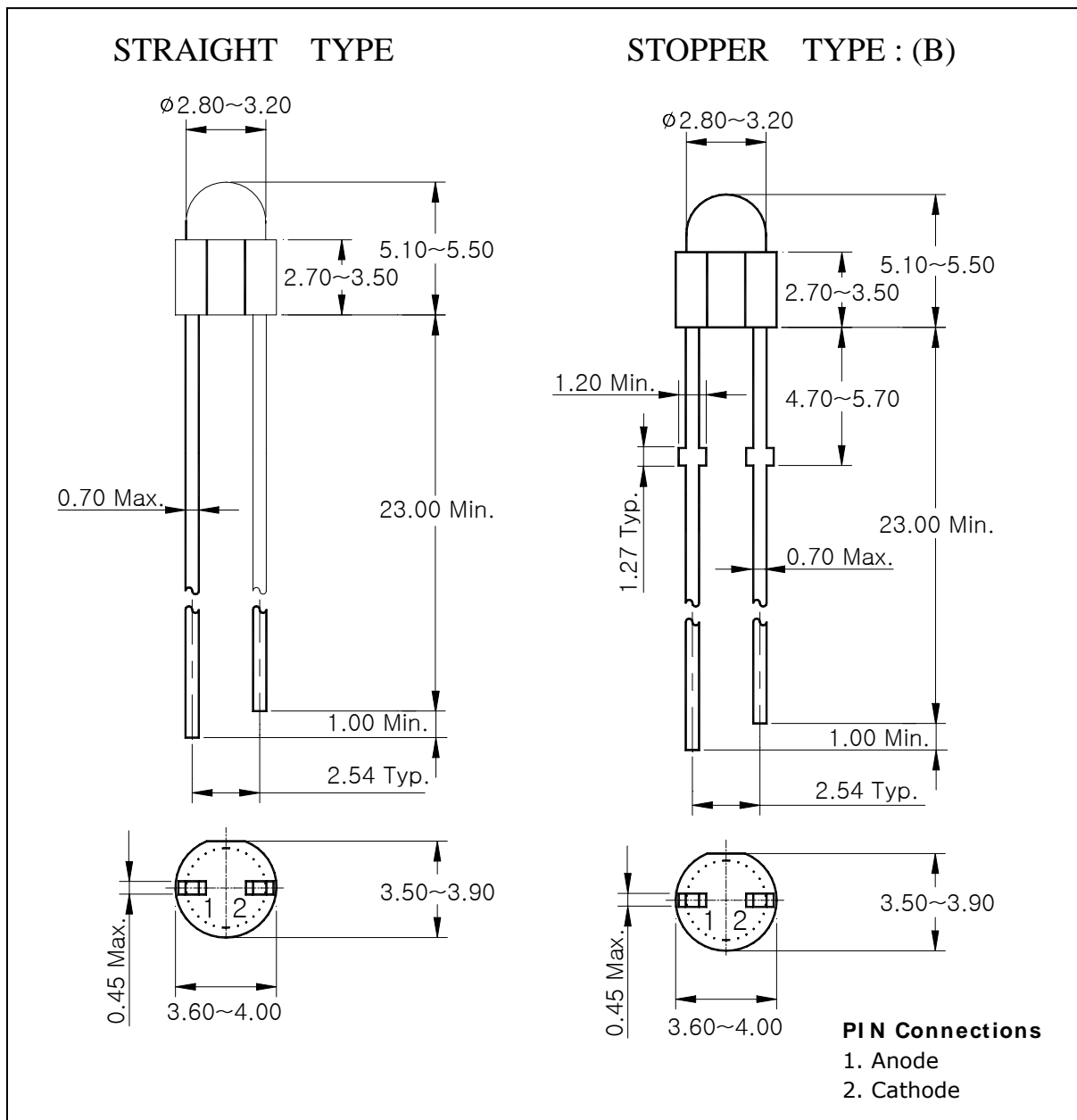


1. Features

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

2. Outline Dimensions

unit : mm



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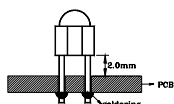
3. Absolute Maximum Ratings

(Ta=25°C)

| Characteristic | Symbol | Rating | Unit |
|-----------------------------|-----------|----------------------|------|
| Power dissipation | P_D | 75 | mW |
| Forward current | I_F | 30 | mA |
| *1 Peak forward current | I_{FP} | 50 | mA |
| Reverse voltage | V_R | 3 | V |
| Operating temperature range | T_{opr} | -25 ~ 85 | °C |
| Storage temperature range | T_{stg} | -30 ~ 100 | °C |
| *2 Soldering temperature | T_{sol} | 260°C for 10 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



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 |
| *3 Luminous intensity | I_V | $I_F = 20\text{mA}$ | 100 | - | 350 | mcd |
| Peak wavelength | λ_p | $I_F = 20\text{mA}$ | - | 660 | - | nm |
| Spectrum bandwidth | $\Delta\lambda$ | $I_F = 20\text{mA}$ | - | 20 | - | nm |
| Reverse current | I_R | $V_R = 4\text{V}$ | - | - | 10 | uA |
| *4 Half angle | $\theta_{1/2}$ | $I_F = 20\text{mA}$ | - | ±25 | - | 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 ±18%

*3. Luminous Intensity Classification

| L | M | N |
|-----------|-----------|-----------|
| 100 ~ 155 | 155 ~ 230 | 230 ~ 350 |

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5. Characteristic Diagrams

Fig. 1 $I_F - V_F$

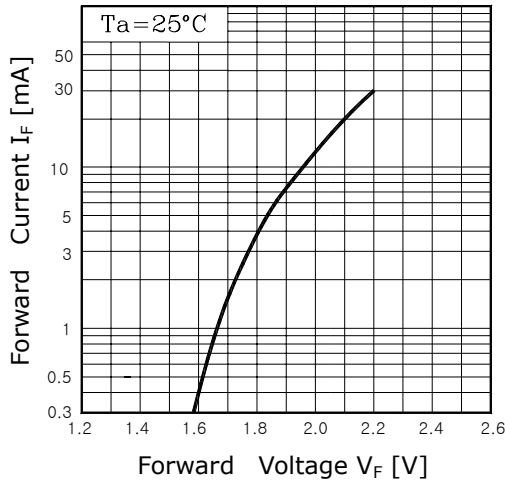


Fig. 2 $I_V - I_F$

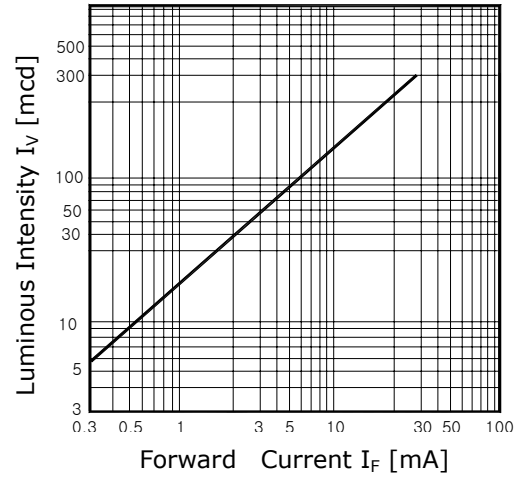


Fig. 3 $I_F - T_a$

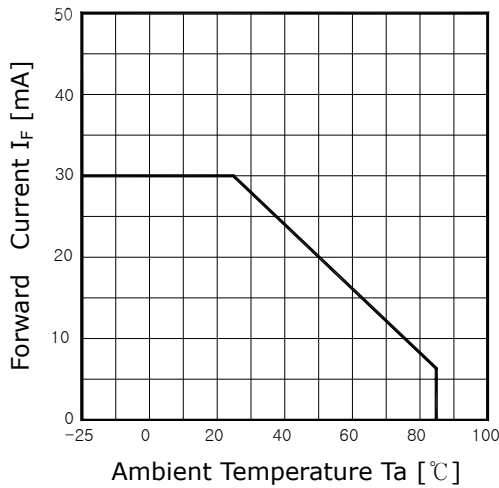


Fig. 4 Spectrum Distribution

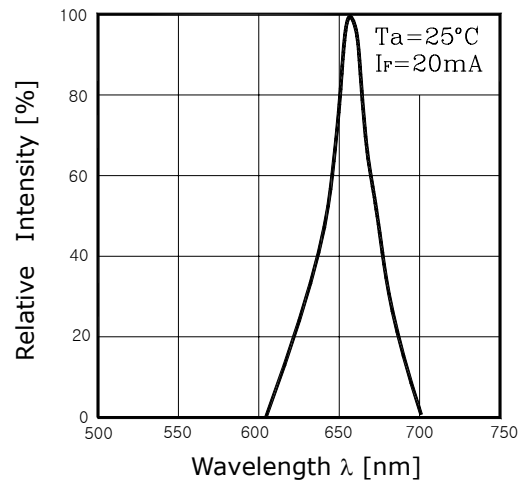
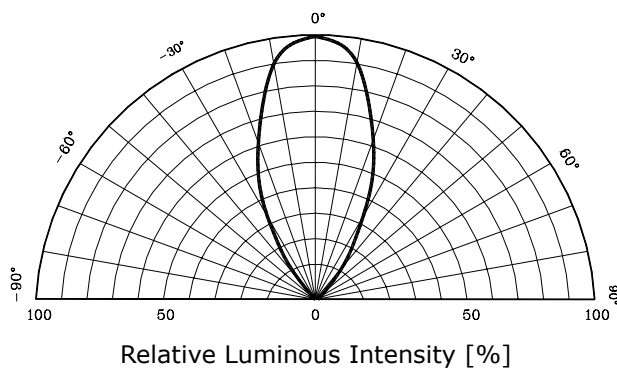


Fig. 5 Radiation Diagram



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