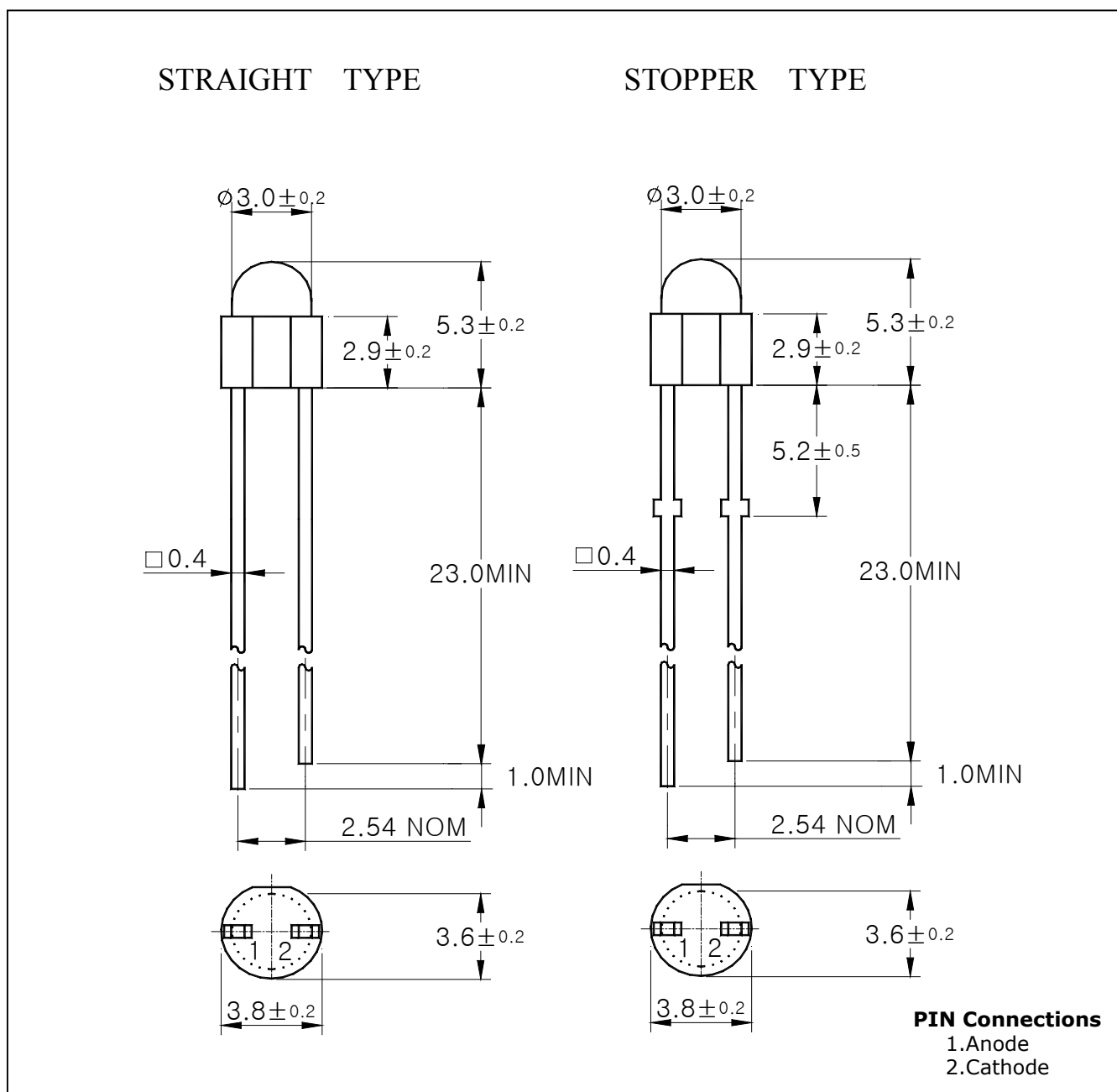


## Features

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

## Outline Dimensions

unit : mm



## Absolute maximum ratings

| Characteristic          | Symbol    | Ratings             | Unit |
|-------------------------|-----------|---------------------|------|
| Power Dissipation       | $P_D$     | 23                  | mW   |
| Forward Current         | $I_F$     | 10                  | mA   |
| *1Peak Forward Current  | $I_{FP}$  | 50                  | mA   |
| Reverse Voltage         | $V_R$     | 4                   | V    |
| Operating Temperature   | $T_{opr}$ | -25 ~ 85            | °C   |
| Storage Temperature     | $T_{stg}$ | -30 ~ 100           | °C   |
| *2Soldering Temperature | $T_{sol}$ | 260°C for 5 seconds | °C   |

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

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

## Electrical Characteristics

| Characteristic     | Symbol           | Test Condition | Min. | Typ. | Max. | Unit |
|--------------------|------------------|----------------|------|------|------|------|
| Forward Voltage    | $V_F$            | $I_F = 5mA$    | -    | 1.9  | 2.3  | V    |
| Luminous Intensity | $I_V$            | $I_F = 5mA$    | 3    | 9    | -    | mcd  |
| Peak Wavelength    | $\lambda_P$      | $I_F = 5mA$    | -    | 700  | -    | nm   |
| Spectrum Bandwidth | $\Delta \lambda$ | $I_F = 5mA$    | -    | 100  | -    | nm   |
| Reverse Current    | $I_R$            | $V_R = 4V$     | -    | -    | 10   | uA   |
| *3Half angle       | $\theta_{1/2}$   | $I_F = 5mA$    | -    | ±22  | -    | deg  |

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

## Characteristic Diagrams

Fig. 1  $I_F - V_F$

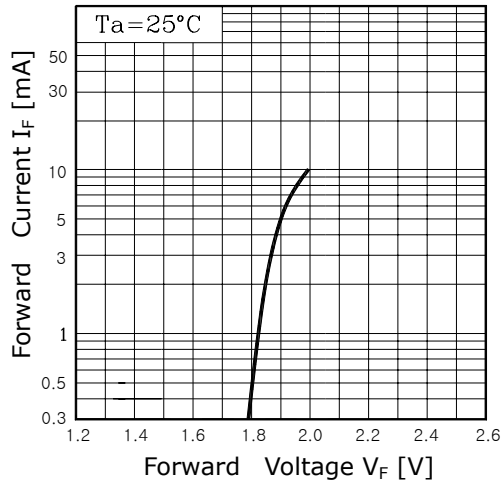


Fig. 2  $I_V - I_F$

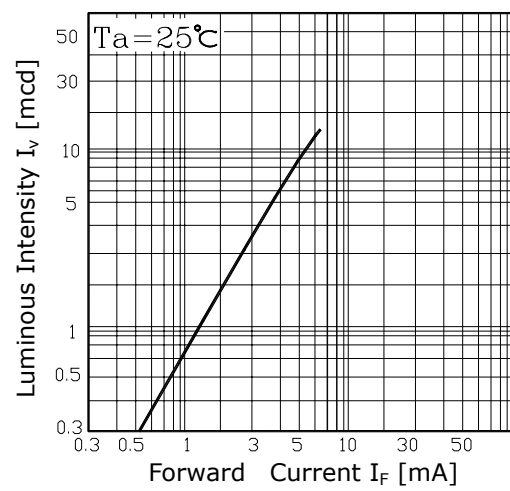


Fig. 3  $I_F - T_a$

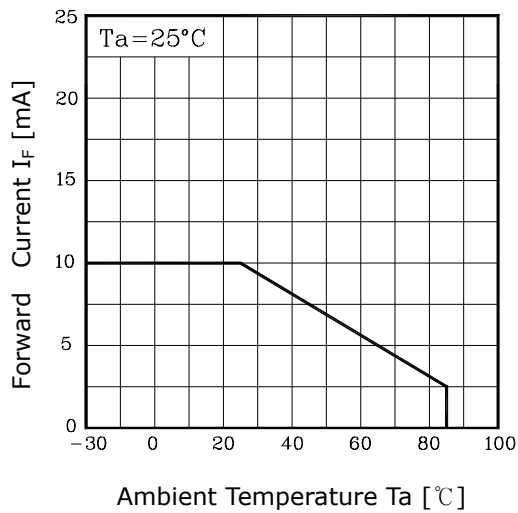


Fig. 4 Spectrum Distribution

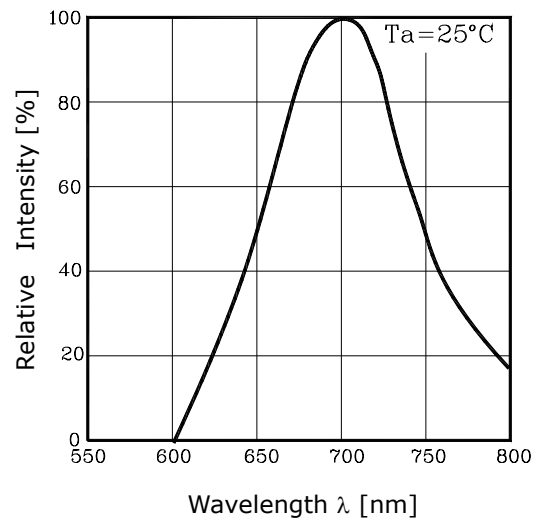


Fig. 5 Radiation Diagram

