

## Features

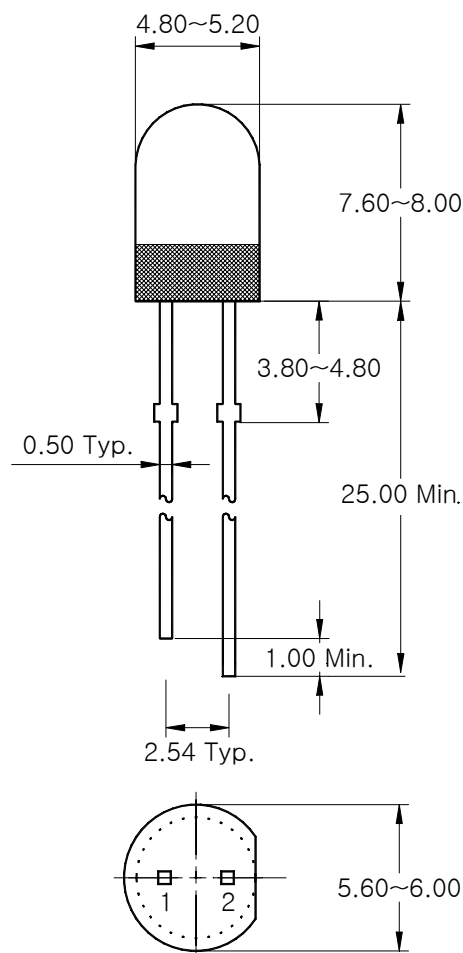
- Green Colored transparency lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Super luminosity no flange type

## Application

- Message boards

## Outline Dimensions

unit : mm



### PIN Connections

1. Anode
2. Cathode

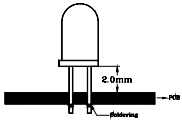
## Absolute Maximum Ratings

(Ta=25°C)

| Characteristic              | Symbol    | Rating               | Unit |
|-----------------------------|-----------|----------------------|------|
| Power dissipation           | $P_D$     | 100                  | mW   |
| Forward current             | $I_F$     | 40                   | mA   |
| *1 Peak forward current     | $I_{FP}$  | 65                   | mA   |
| Reverse voltage             | $V_R$     | 4                    | V    |
| Operating temperature range | $T_{opr}$ | -20 ~ 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



## 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    |
| *4 Luminous intensity | $I_V$           | $I_F = 20\text{mA}$ | 155  | -    | 780  | mcd  |
| Dominant wavelength   | $\lambda_D$     | $I_F = 20\text{mA}$ | 569  | 572  | 575  | nm   |
| Spectrum bandwidth    | $\Delta\lambda$ | $I_F = 20\text{mA}$ | -    | 30   | -    | nm   |
| Reverse current       | $I_R$           | $V_R = 4\text{V}$   | -    | -    | 10   | uA   |
| *3 Half angle         | $\theta_{1/2}$  | $I_F = 20\text{mA}$ | -    | ±20  | -    | deg  |

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

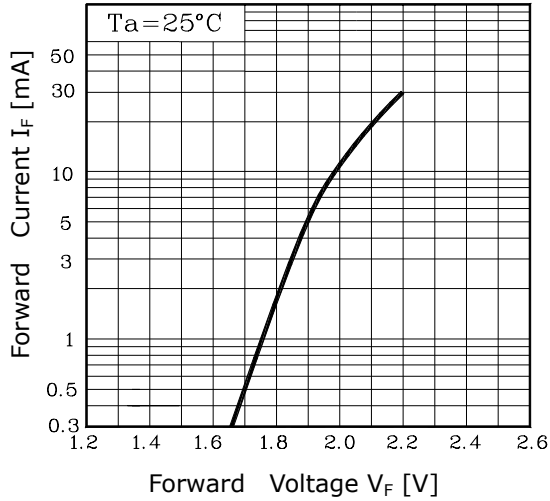
\*4. Luminous intensity maximum tolerance for each grade classification limit is ±18%

\*4. Luminous Intensity Classification

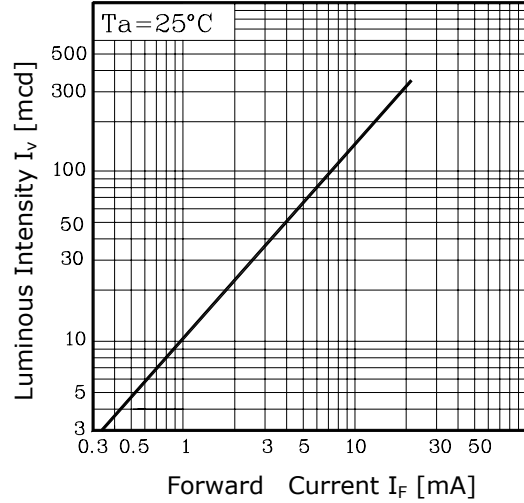
| M       | N       | O       | P       |
|---------|---------|---------|---------|
| 155~230 | 230~350 | 350~520 | 520~780 |

## Characteristic Diagrams

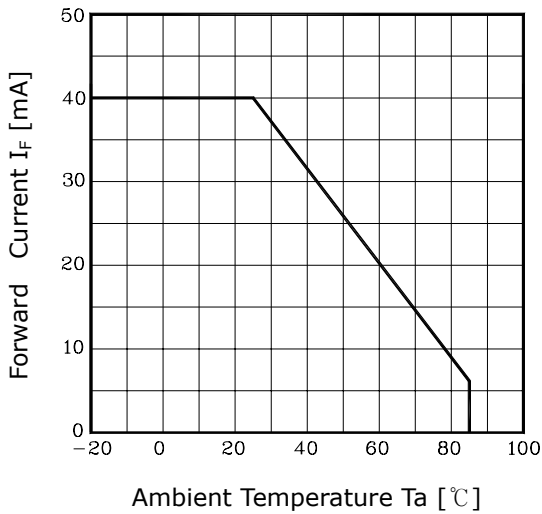
**Fig. 1  $I_F - V_F$**



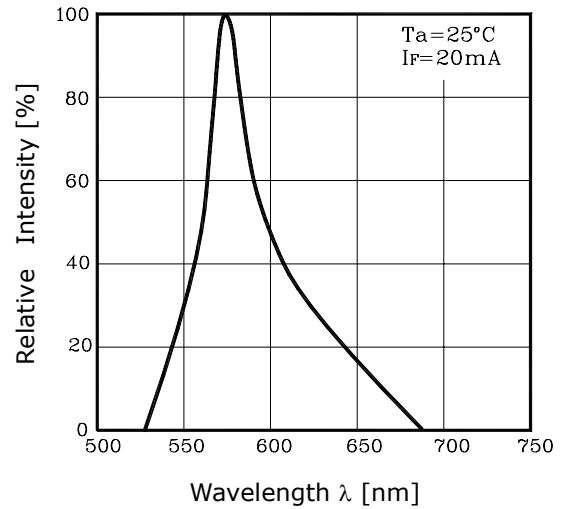
**Fig. 2  $I_V - I_F$**



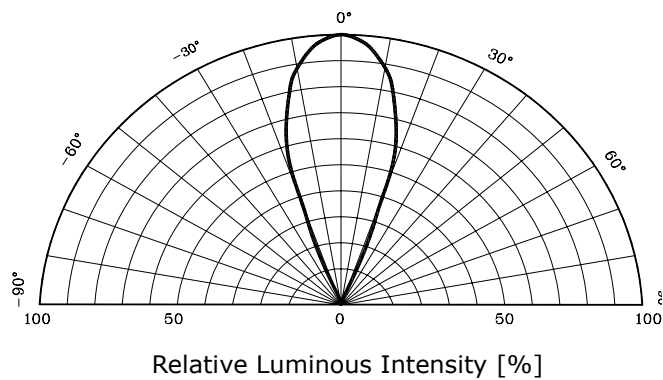
**Fig. 3  $I_F - T_a$**



**Fig. 4 Spectrum Distribution**



**Fig. 5 Radiation Diagram**



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