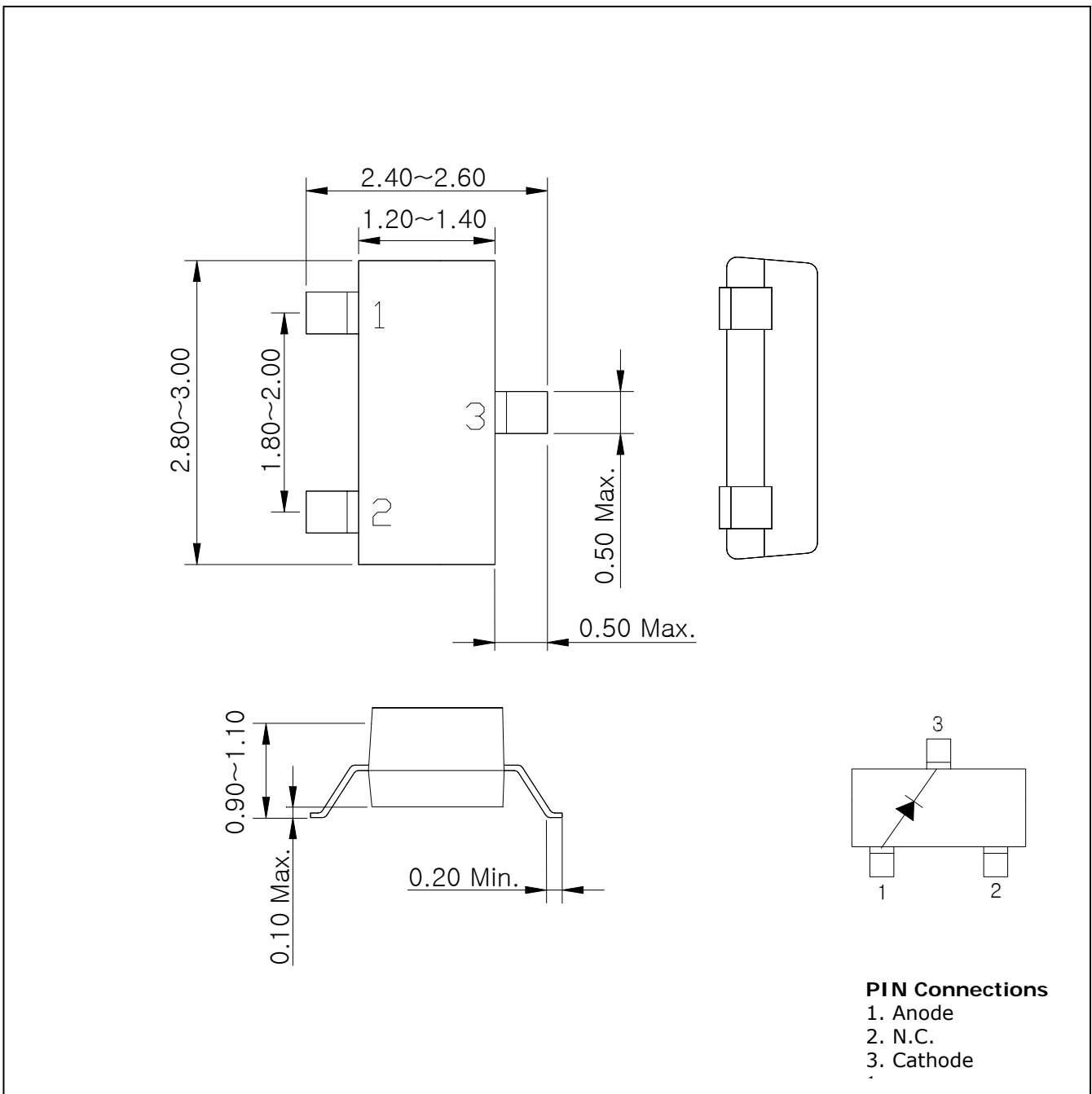


**Features**

- Colorless diffusion lens type
- Compact type
- Radiation size 1.3mm × 2.9mm
- Surface mount lead configuration

**Outline Dimensions**

**unit : mm**



**Absolute Maximum Ratings**

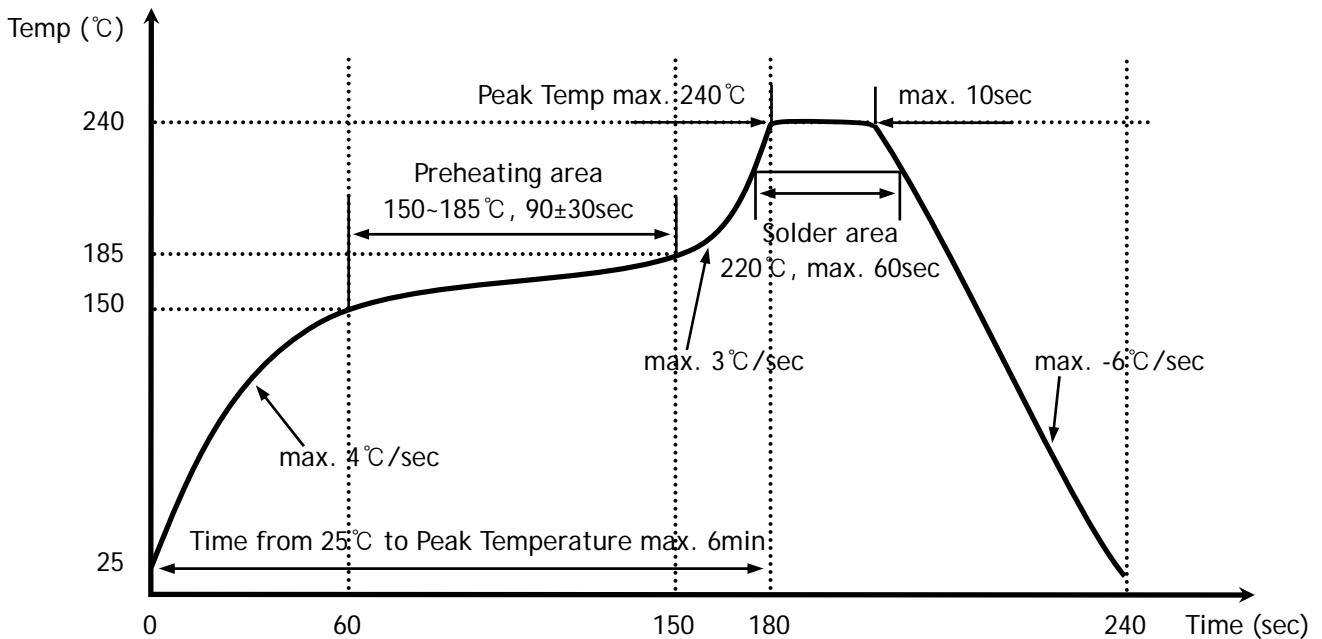
(Ta=25°C)

| Characteristic              | Symbol           | Rating               | Unit |
|-----------------------------|------------------|----------------------|------|
| Power dissipation           | P <sub>D</sub>   | 63                   | mW   |
| Forward current             | I <sub>F</sub>   | 25                   | mA   |
| *1 Peak forward current     | I <sub>FP</sub>  | 50                   | mA   |
| Reverse voltage             | V <sub>R</sub>   | 4                    | V    |
| Operating temperature range | T <sub>opr</sub> | -25~80               | °C   |
| Storage temperature range   | T <sub>stg</sub> | -30~100              | °C   |
| *2 Soldering temperature    | T <sub>sol</sub> | 240°C for 10 seconds |      |

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

\*2. Recommended reflow soldering temperature profile

- Preheating 150°C to 185°C within 120 seconds soldering 240°C within 10 seconds
- Gradual cooling (Avoid quenching)



**Electrical / Optical Characteristics**

(Ta=25°C)

| Characteristic     | Symbol         | Test Condition        | Min | Typ. | Max. | Unit |
|--------------------|----------------|-----------------------|-----|------|------|------|
| Forward voltage    | V <sub>F</sub> | I <sub>F</sub> = 20mA | -   | 2.1  | 2.5  | V    |
| Luminous intensity | I <sub>V</sub> | I <sub>F</sub> = 20mA | 4   | -    | -    | mcd  |
| Peak wavelength    | λ <sub>P</sub> | I <sub>F</sub> = 20mA | -   | 570  | -    | nm   |
| Spectrum bandwidth | Δλ             | I <sub>F</sub> = 20mA | -   | 30   | -    | nm   |
| Reverse current    | I <sub>R</sub> | V <sub>R</sub> =4V    | -   | -    | 10   | uA   |
| *3 Half angle      | θ1/2           | I <sub>F</sub> = 20mA | -   | ±55  | -    | deg  |
|                    |                |                       | -   | ±80  | -    |      |

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

Characteristic Diagrams

Fig. 1  $I_F - V_F$

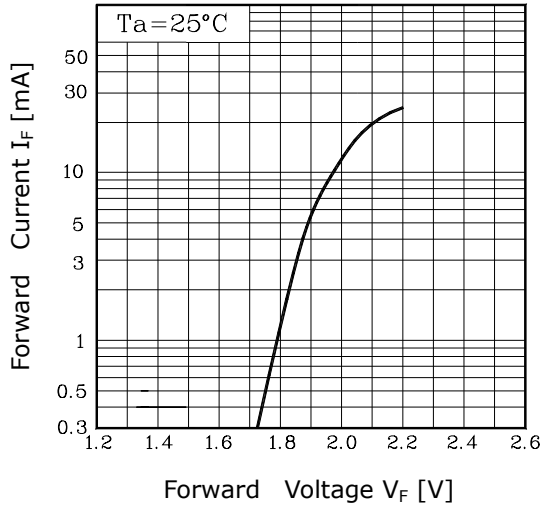


Fig. 2  $I_V - I_F$

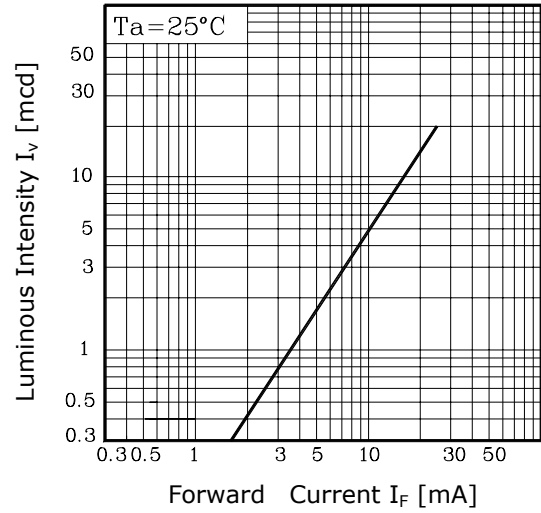


Fig. 3  $I_F - T_a$

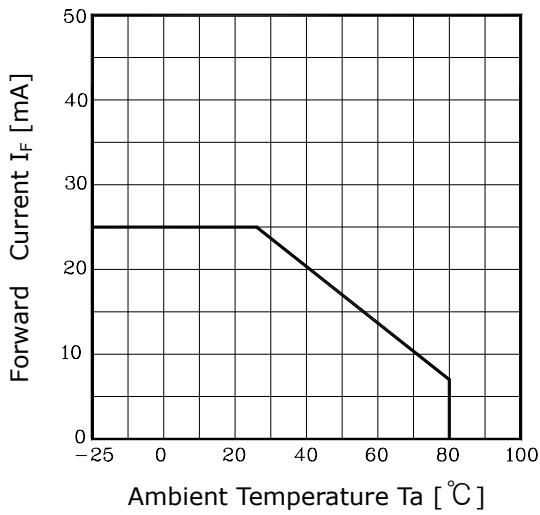


Fig.4 Spectrum Distribution

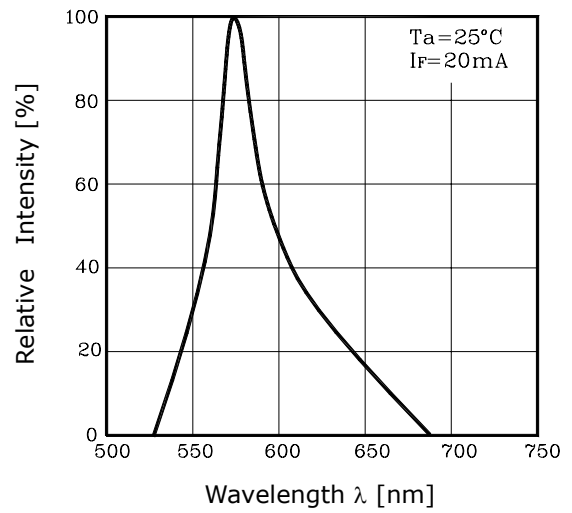


Fig. 5-1 Radiation Diagram(X)

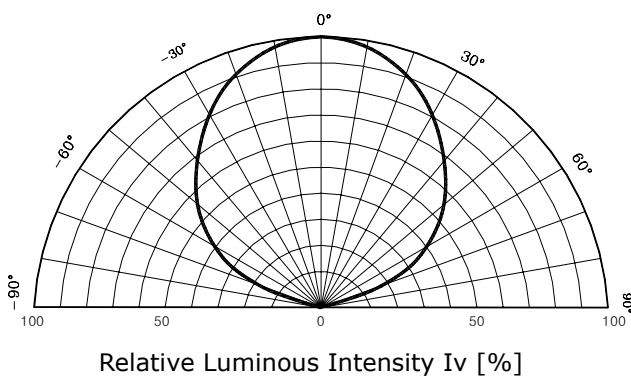
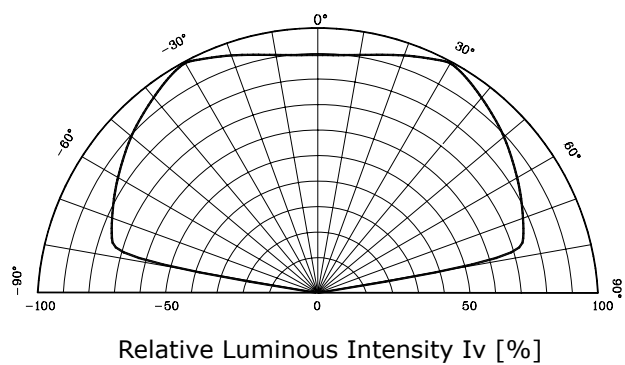


Fig. 5 Radiation Diagram



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