

**Features**

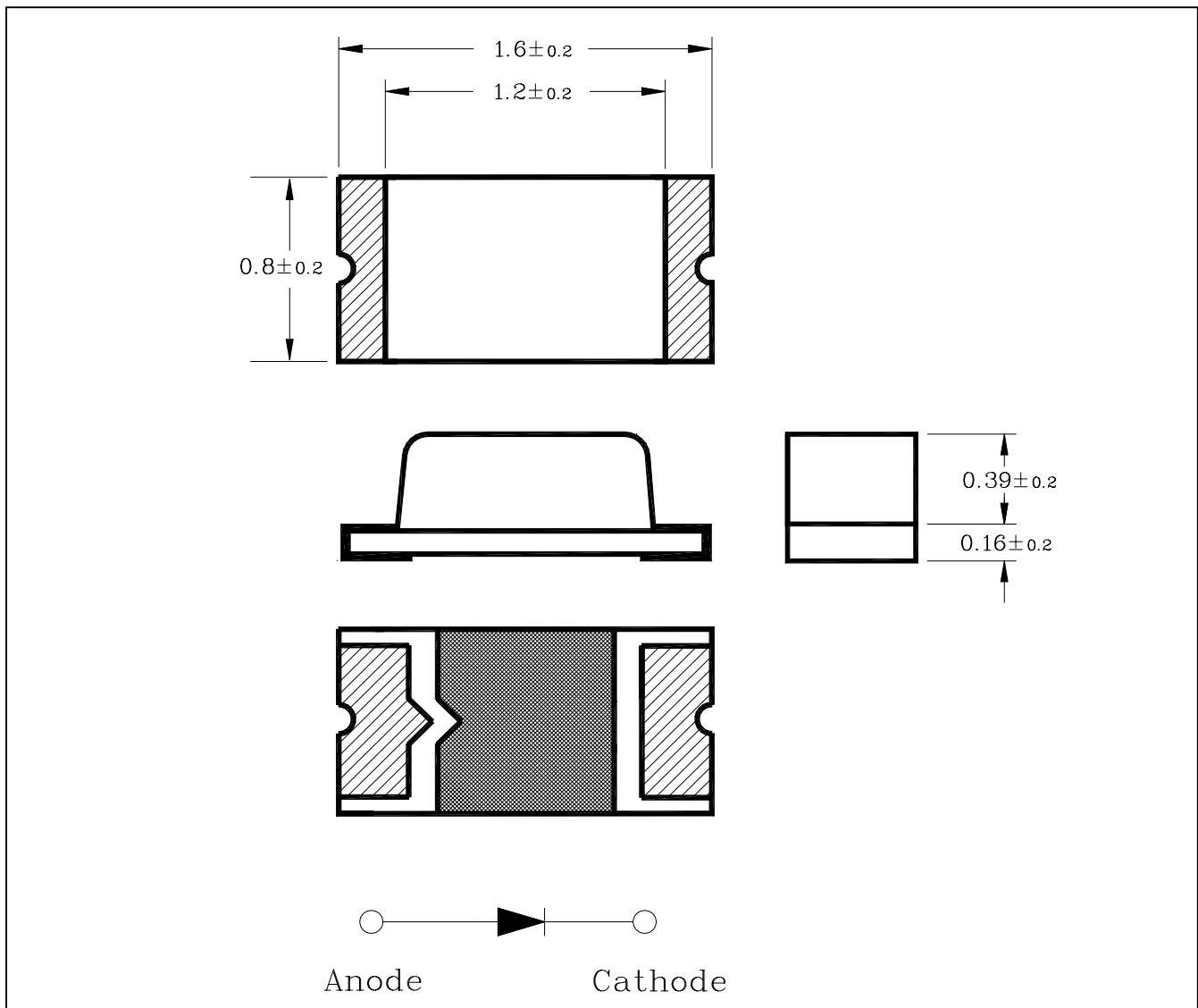
- 1.6mm(L)×0.8mm small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip led

**Applications**

- LCD backlighting
- Keypad backlighting
- Symbol backlighting
- Front panel indicator lamp

**Outline Dimensions**

**unit : mm**



## Absolute maximum ratings

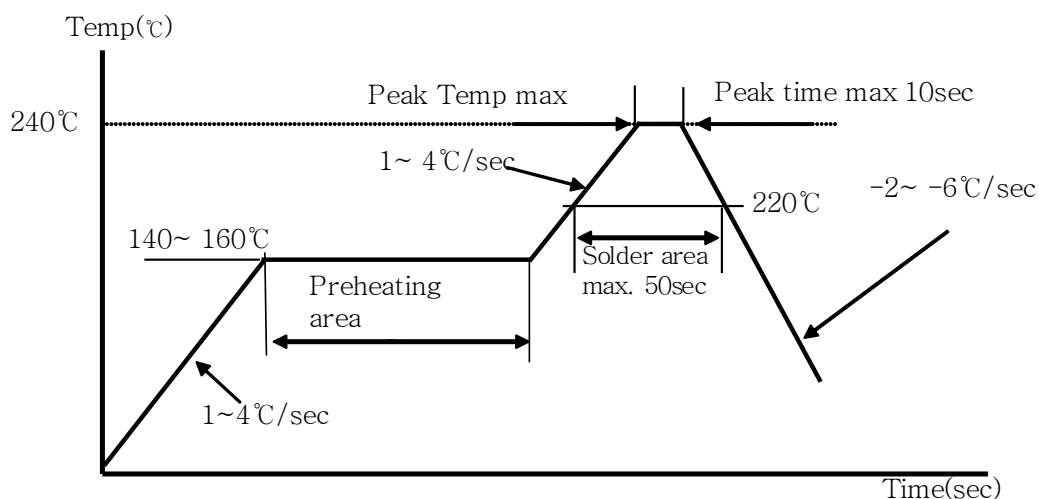
| Characteristic          | Symbol    | Ratings             | Unit |
|-------------------------|-----------|---------------------|------|
| Power Dissipation       | $P_D$     | 70                  | mW   |
| Forward Current         | $I_F$     | 25                  | mA   |
| *1Peak Forward Current  | $I_{FP}$  | 50                  | mA   |
| Reverse Voltage         | $V_R$     | 4                   | V    |
| Operating Temperature   | $T_{opr}$ | -25 ~ 80            | °C   |
| Storage Temperature     | $T_{stg}$ | -30 ~ 100           | °C   |
| *2Soldering Temperature | $T_{sol}$ | 240°C for 5 seconds |      |

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

\*2. Recommended soldering Temperature Profile

2-1) Preheating 100°C to 150°C within 2 minutes Soldering 240°C within 5 seconds

Gradual cooling (Avoid quenching)



## Electrical Characteristics

| Characteristic     | Symbol           | Test Condition      | Min | Typ      | Max | Unit |
|--------------------|------------------|---------------------|-----|----------|-----|------|
| Forward Voltage    | $V_F$            | $I_F = 20\text{mA}$ | -   | 2.2      | 2.8 | V    |
| Luminous Intensity | $I_V$            | $I_F = 20\text{mA}$ | -   | 7        | -   | mcd  |
| Peak Wavelength    | $\lambda_p$      | $I_F = 20\text{mA}$ | -   | 560      | -   | nm   |
| Spectrum Bandwidth | $\Delta \lambda$ | $I_F = 20\text{mA}$ | -   | 30       | -   | nm   |
| Reverse Current    | $I_R$            | $V_R = 4\text{V}$   | -   | -        | 10  | uA   |
| *3Half angle       | $\theta_{1/2}$   | $I_F = 20\text{mA}$ | -   | $\pm 65$ | -   | deg  |
|                    |                  |                     | -   | $\pm 70$ | -   |      |

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

Characteristic Diagrams

Fig. 1  $I_F - V_F$

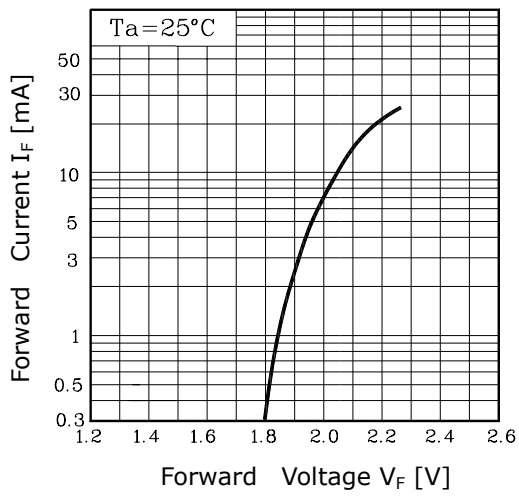


Fig. 2  $I_V - I_F$

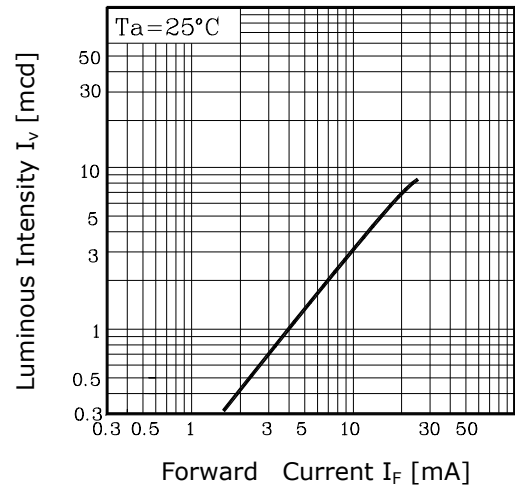


Fig. 3  $I_F - T_a$

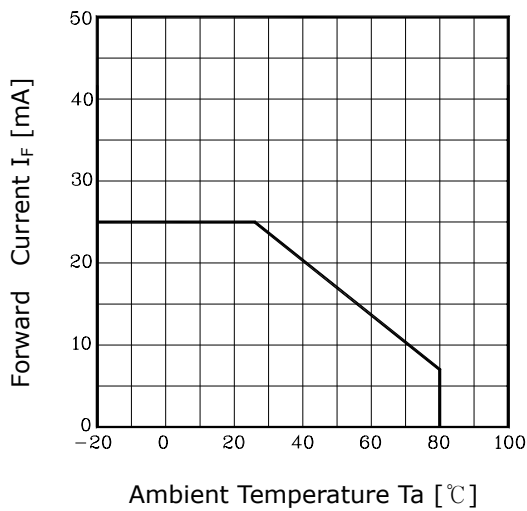


Fig.4 Spectrum Distribution

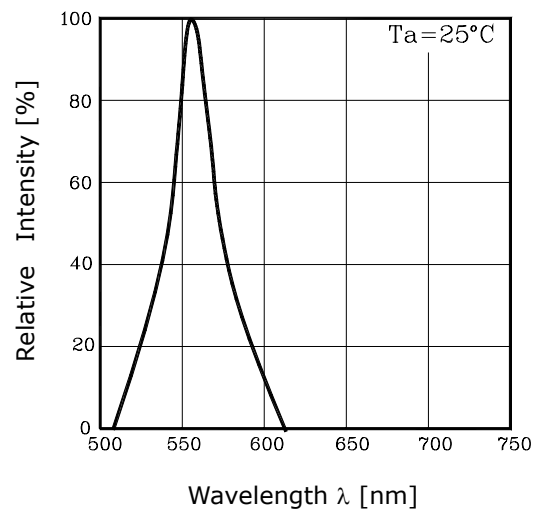


Fig. 5-1 Radiation Diagram(X)

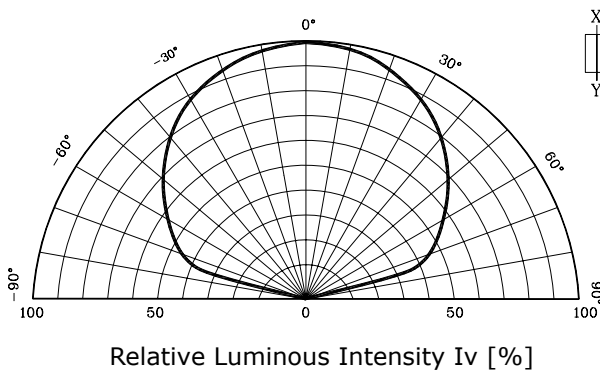
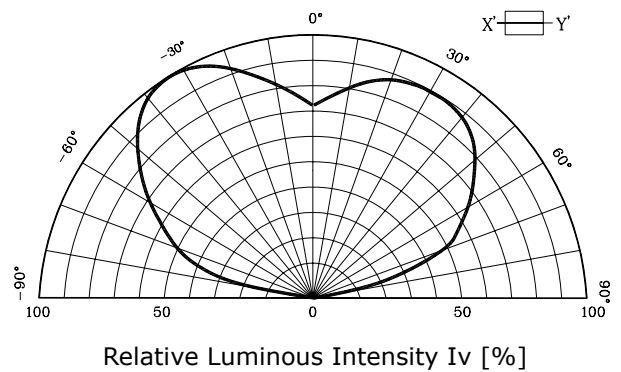


Fig. 5-2 Radiation Diagram(Y)



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