

Features

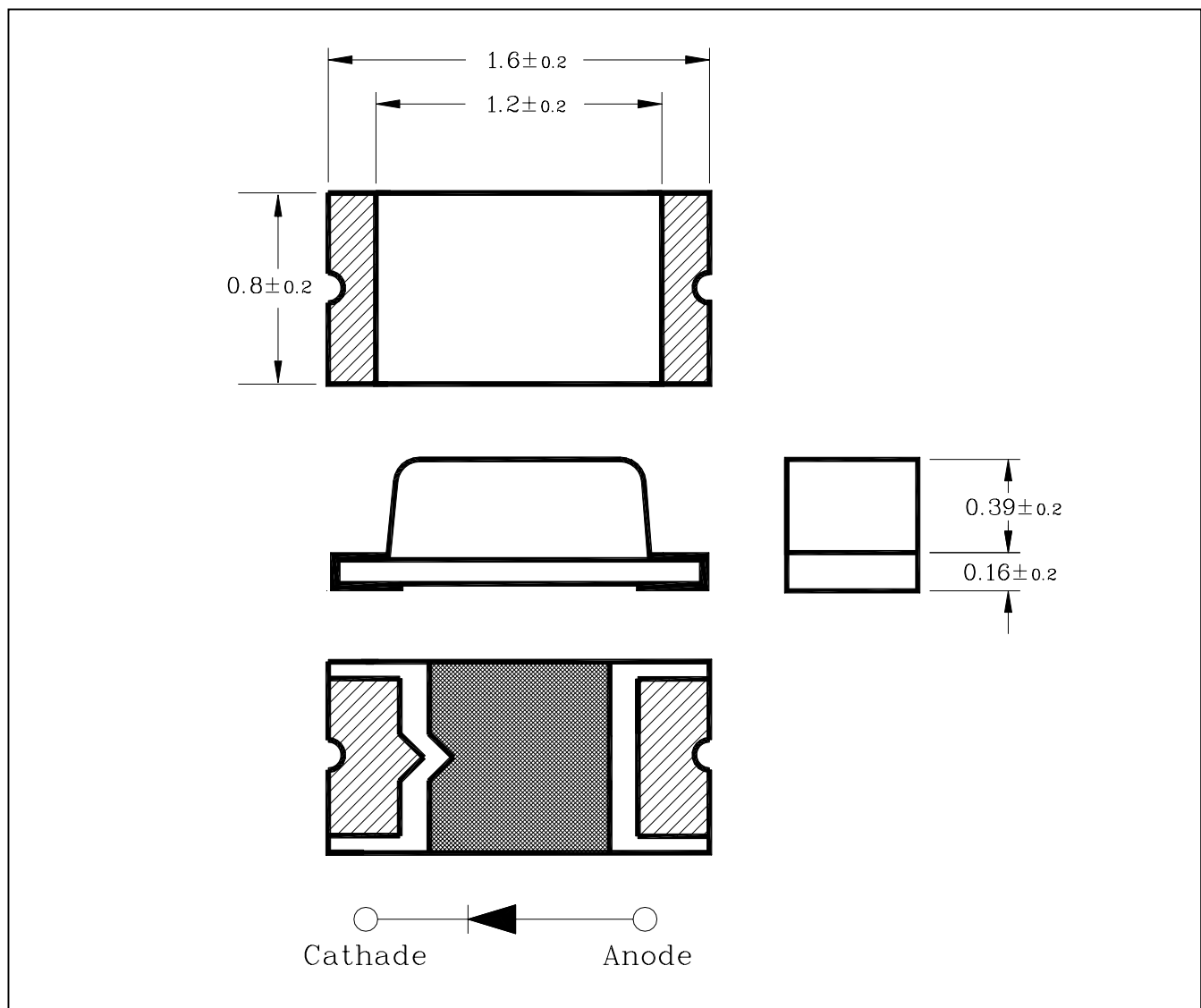
- 1.6mm(L)×0.8mm small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- High luminous

Applications

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

Outline Dimensions

unit : mm

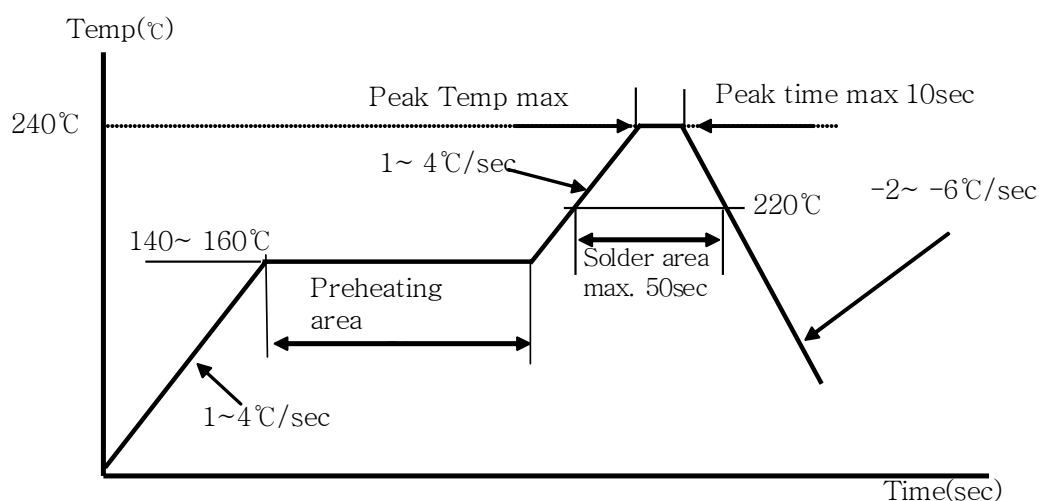


Absolute maximum ratings

| Characteristic | Symbol | Ratings | Unit |
|--------------------------|-----------|---------------------|------|
| Power Dissipation | P_D | 65 | mW |
| Forward Current | I_F | 25 | mA |
| *1 Peak 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 |
| *2 Soldering Temperature | T_{sol} | 240°C for 5 seconds | |

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

*2. Recommended soldering Temperature Profile



Electrical Characteristics

| Characteristic | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|--------------------|-----------------|---------------------|------|------|------|------|
| Forward Voltage | V_F | $I_F = 20\text{mA}$ | - | 1.8 | 2.5 | V |
| Luminous Intensity | I_V | $I_F = 20\text{mA}$ | - | 8 | - | 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 |
| *3 Half Angle | $\theta_{1/2}$ | $I_F = 20\text{mA}$ | - | ±65 | - | deg |
| | | | - | ±70 | - | |

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

Characteristic Diagrams

Fig. 1 $I_F - V_F$

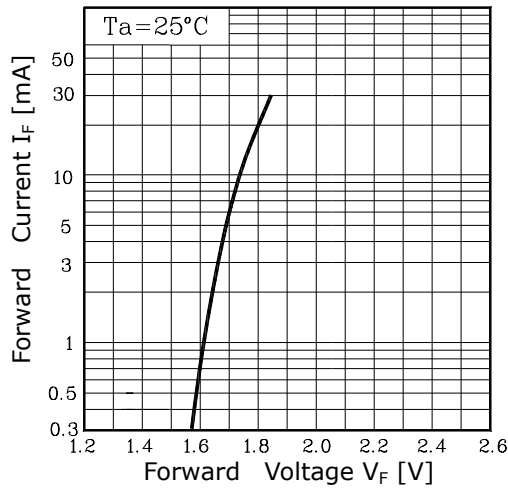


Fig. 2 $I_V - I_F$

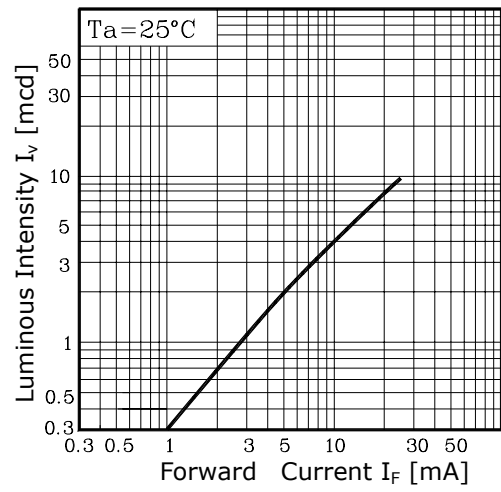


Fig. 3 $I_F - T_a$

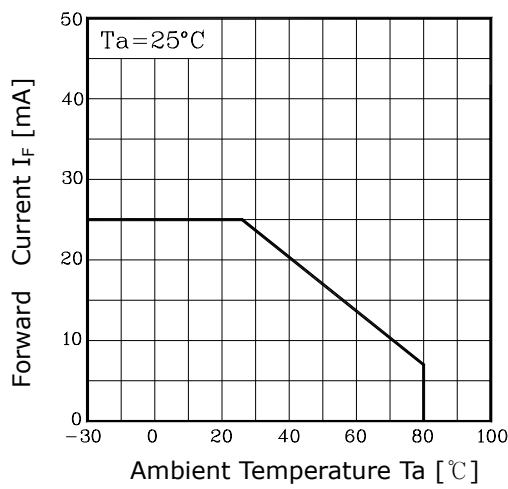


Fig. 4 Spectrum Distribution

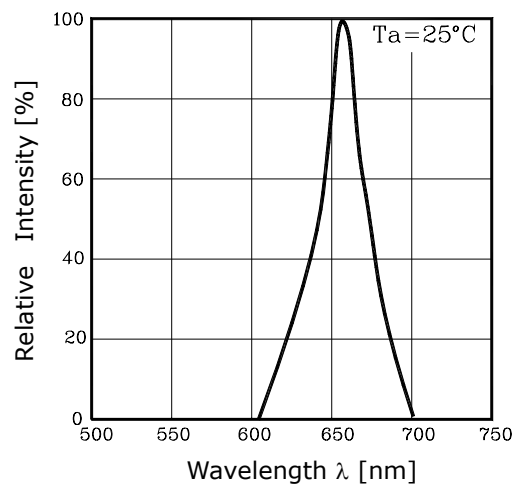


Fig. 5-1 Radiation Diagram

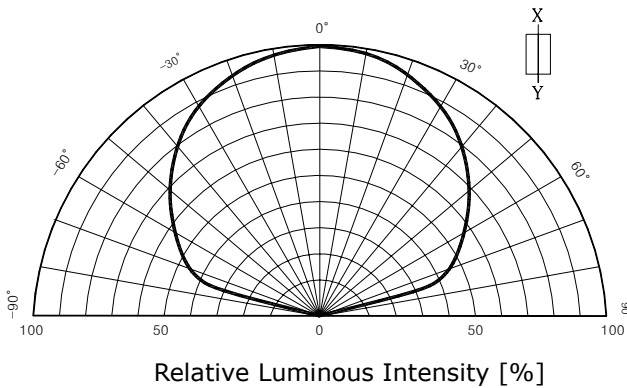
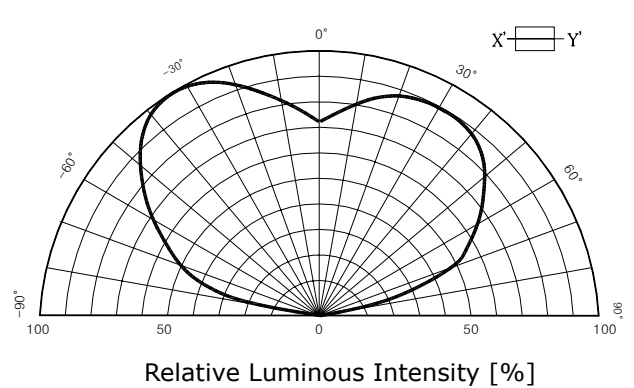


Fig. 5-2 Radiation Diagram



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