

Features

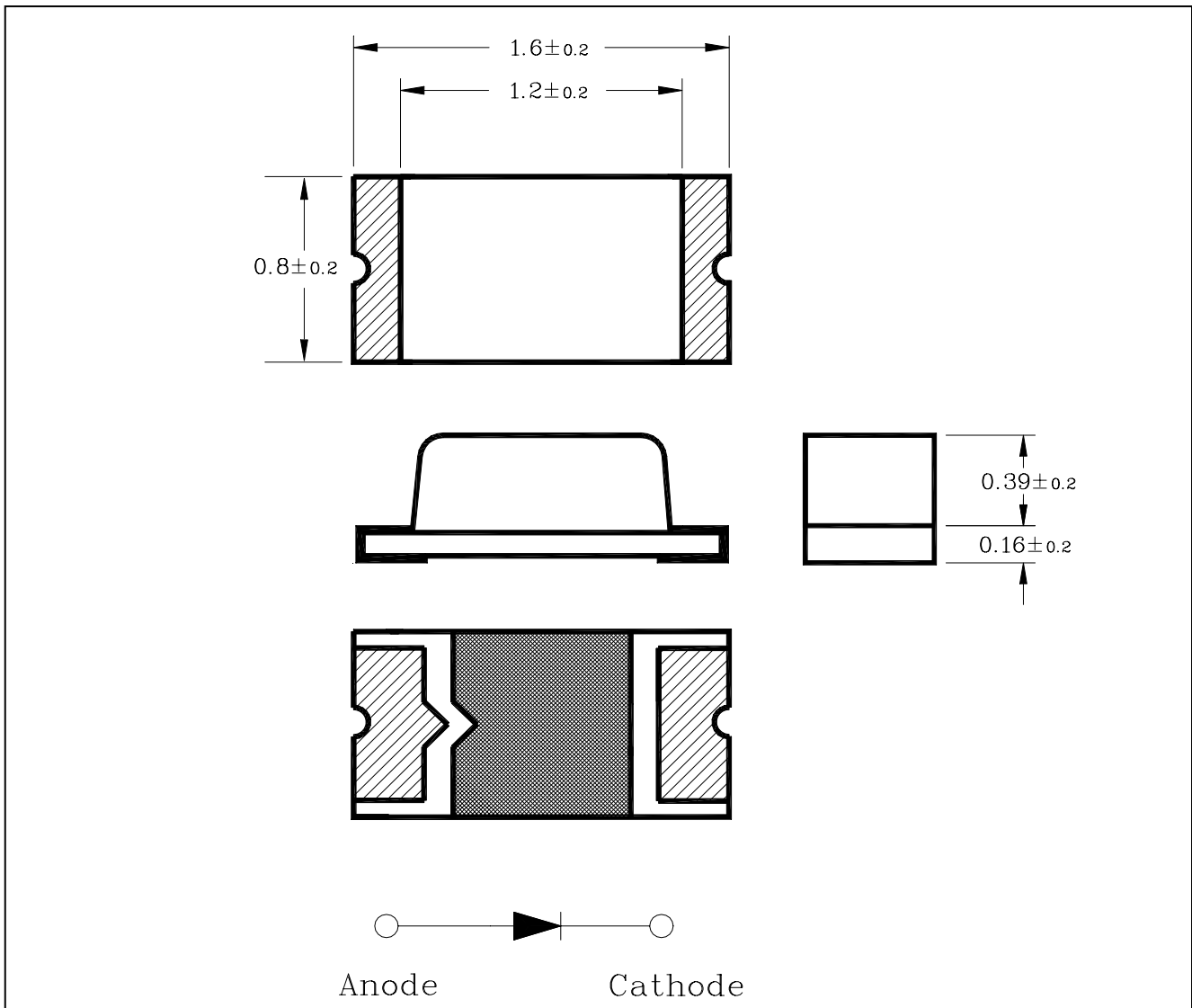
- 1.6mm(L)×0.8mm small size surface mount type
- Thin package of 0.4mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip LED
- Emitting light green (525nm)

Applications

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

Outline Dimensions

unit : mm

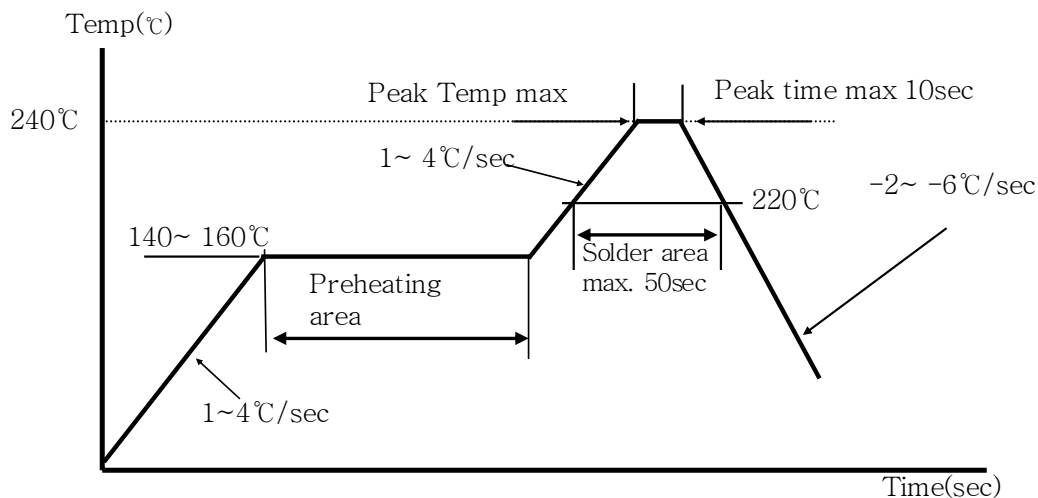


Absolute maximum ratings

| Characteristic | Symbol | Ratings | Unit |
|--------------------------|-----------|---------------------|------|
| Power Dissipation | P_D | 80 | mW |
| Forward Current | I_F | 20 | 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 |
|-----------------------|------------------|---------------------|-----|----------|-----|------|
| *3 Forward Voltage | V_F | $I_F = 10\text{mA}$ | 2.6 | 3.0 | 3.6 | V |
| *4 Luminous Intensity | I_V | $I_F = 10\text{mA}$ | 62 | 100 | 228 | mcd |
| Peak Wavelength | λ_p | $I_F = 10\text{mA}$ | - | 525 | - | nm |
| Spectrum Bandwidth | $\Delta \lambda$ | $I_F = 10\text{mA}$ | - | 35 | - | nm |
| Reverse Current | I_R | $V_R = 4\text{V}$ | - | - | 10 | uA |
| *5 Half Angle | $\theta_{1/2}$ | $I_F = 10\text{mA}$ | - | ± 65 | - | deg |
| | X Y | | - | ± 70 | - | |

*3. Forward Voltage Maximum tolerance for $\pm 0.1\text{V}$

*4. Luminous Intensity Maximum tolerance for each Grade Classification limit is $\pm 18\%$
 (The test result of $I_F = 20\text{mA}$ is only for reference)

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

● $I_V / V_F / \lambda_p$ Grade Classification

| Test Condition @ $I_F = 10\text{mA}$ | | |
|--------------------------------------|-------------------------|---------------------|
| Forward Voltage(V) | Luminous Intensity(mcd) | Peak Wavelength(nm) |
| 3 : 2.8~3.0 | B : 78~105 | A : 515~520 |
| 4 : 3.0~3.2 | C : 105~140 | B : 520~525 |
| 5 : 3.2~3.4 | D : 140~190 | C : 525~530 |

Characteristic Diagrams

Fig. 1 $I_F - V_F$

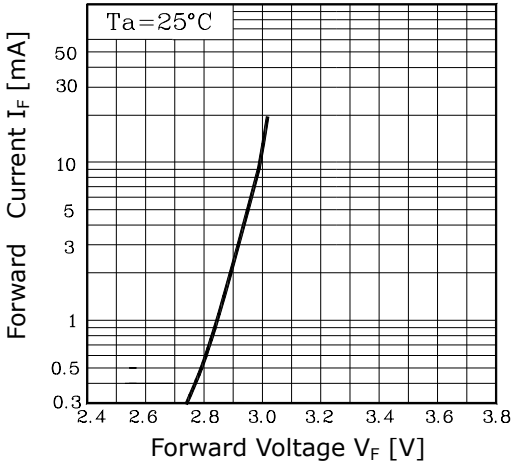


Fig. 2 $I_V - I_F$

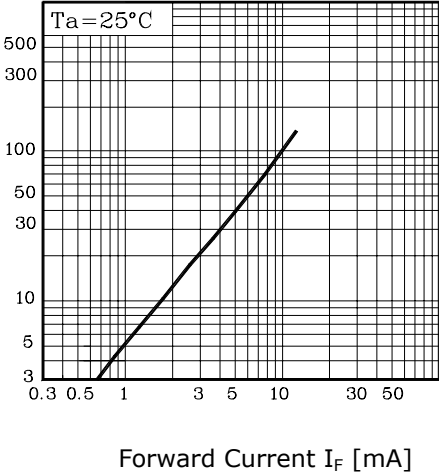


Fig. 3 $I_F - T_a$

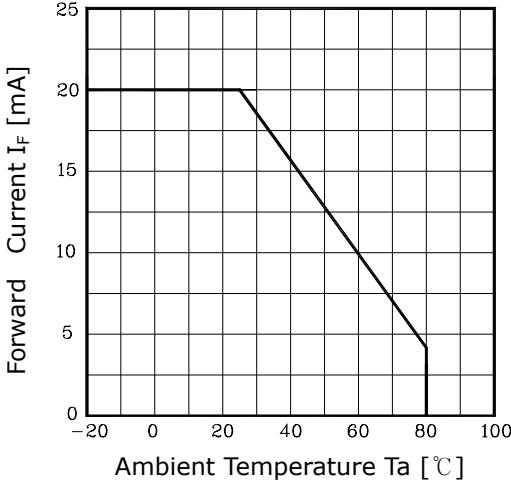


Fig. 4 Spectrum Distribution

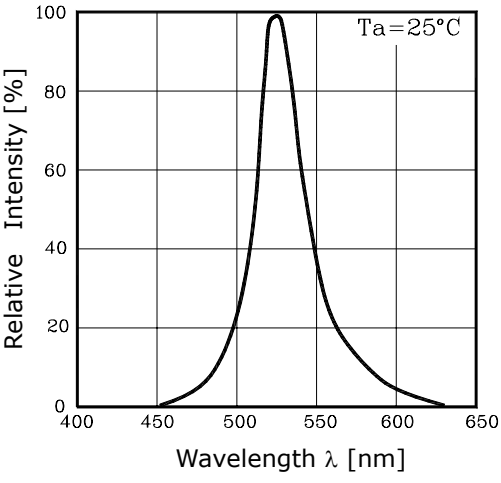


Fig. 5-1 Radiation Diagram(X)

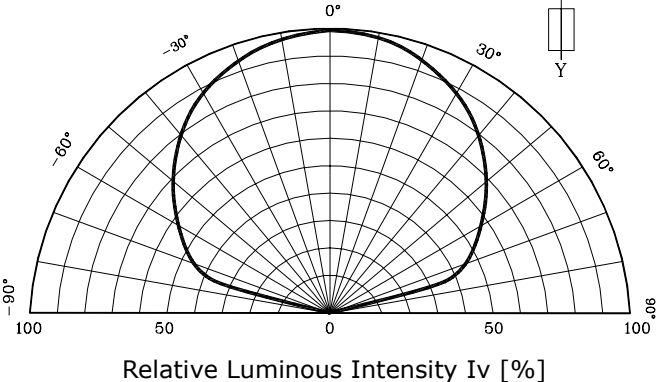
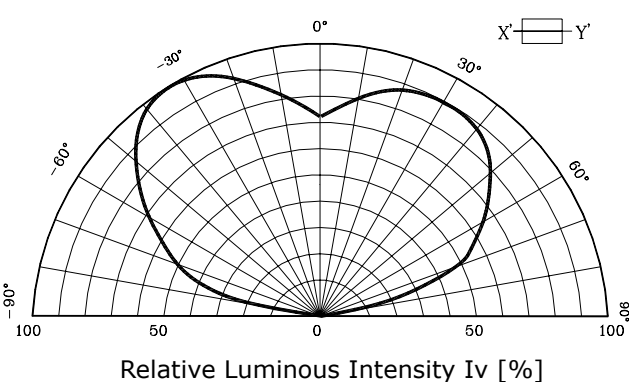


Fig. 5-2 Radiation Diagram(Y)



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