

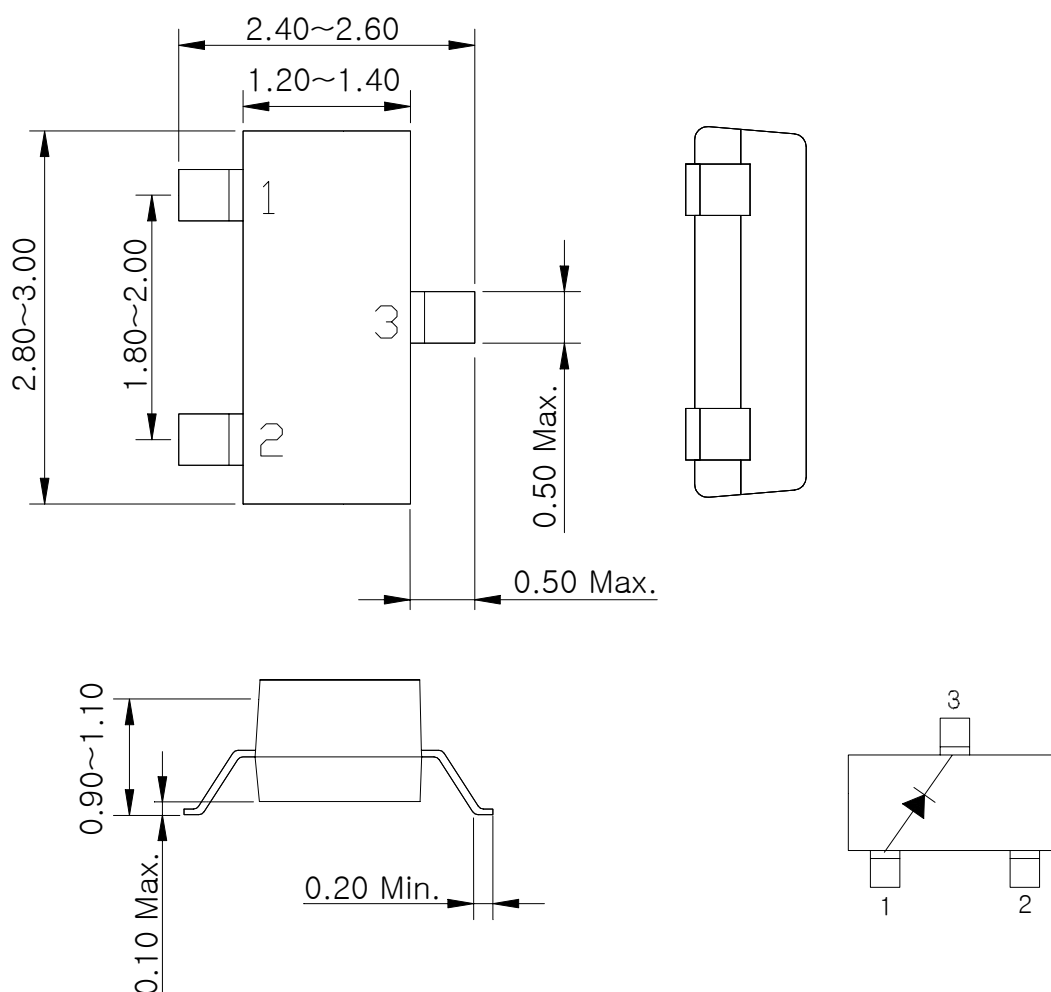
Features

- Colorless diffusion lens type
- Compact type
- Radiation size 2.9mm(L)×1.3mm(W) surface mount type.

Outline Dimensions

unit : mm

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PIN Connections

- 1. Anode
- 2. N.C.
- 3. Cathode

Absolute Maximum Ratings

(Ta=25°C)

| Characteristic | Symbol | Rating | Unit |
|-----------------------------|-----------|----------------------|------|
| Power dissipation | P_D | 63 | mW |
| Forward current | I_F | 25 | mA |
| *1 Peak forward current | I_{FP} | 50 | mA |
| Reverse voltage | V_R | 4 | V |
| Operating temperature range | T_{opr} | -25 ~ 80 | °C |
| Storage temperature range | T_{stg} | -30 ~ 100 | °C |
| *2 Soldering temperature | T_{sol} | 240°C for 10 seconds | |

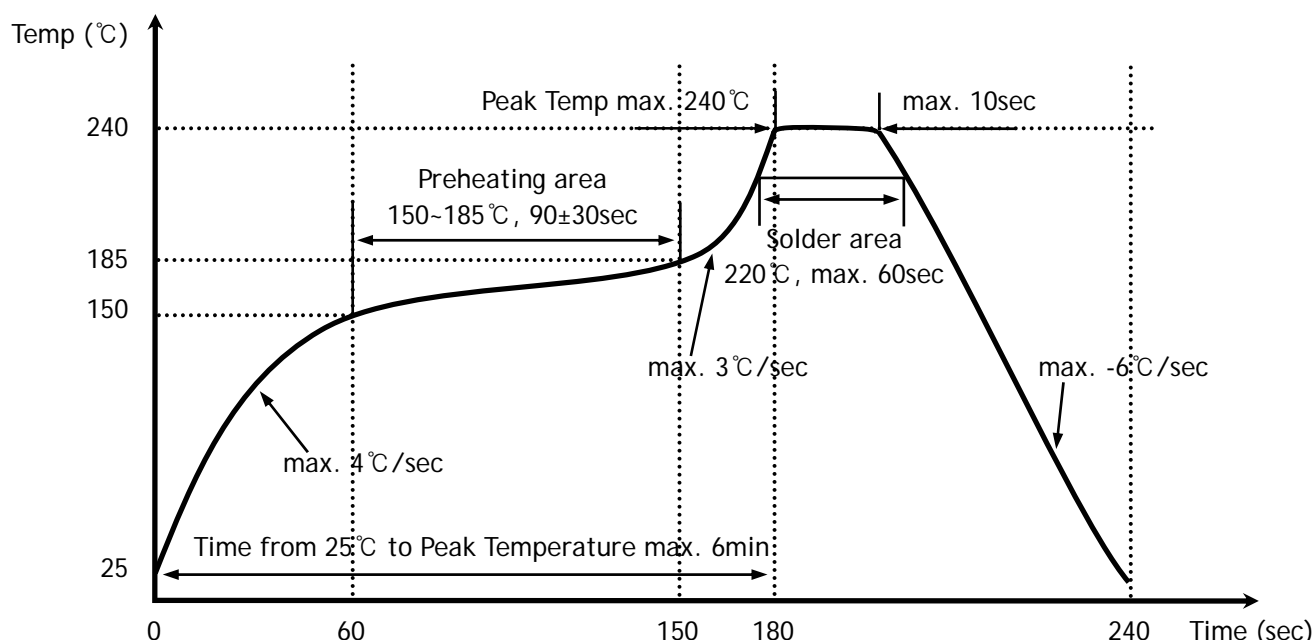
*1. Duty ratio = 1/16, Pulse width = 0.1ms

*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)

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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 |
| Luminous intensity | I_V | $I_F=20\text{mA}$ | 17 | - | - | mcd |
| Dominant wavelength | λ_D | $I_F=20\text{mA}$ | 569 | 572 | 576 | 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 | $\theta_{1/2}$ | $I_F=20\text{mA}$ | - | ±55 | - | deg |
| | | | - | ±80 | - | |

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

(Do not use to combine grade classification. It must be used separately grade classification)

Characteristic Diagrams

Fig. 1 $I_F - V_F$

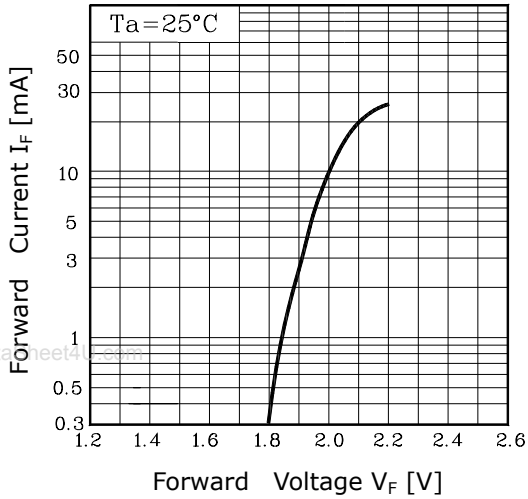


Fig. 2 $I_V - I_F$

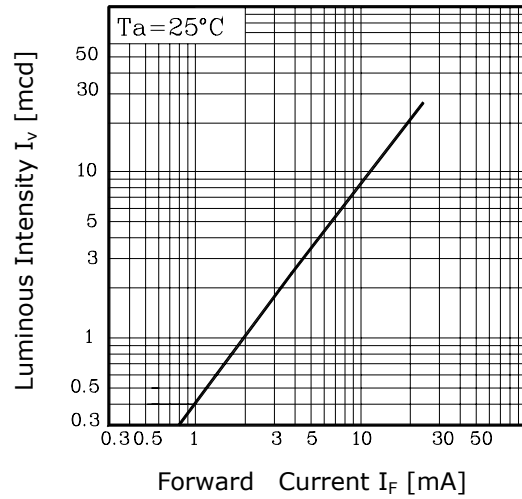


Fig. 3 $I_F - T_a$

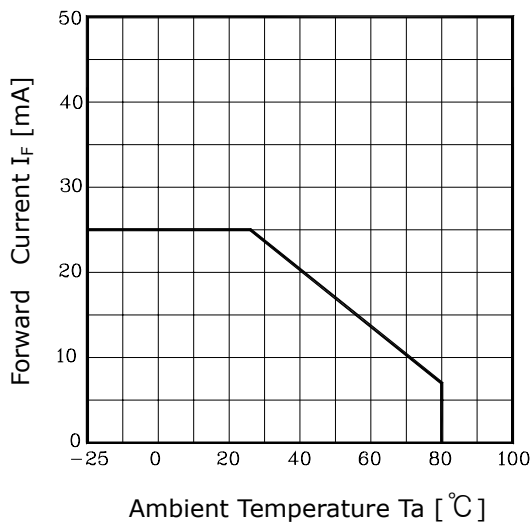


Fig.4 Spectrum Distribution

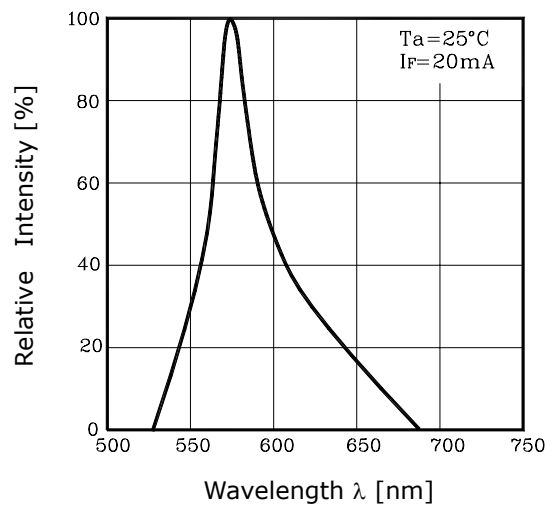


Fig. 5-1 Radiation Diagram(X)

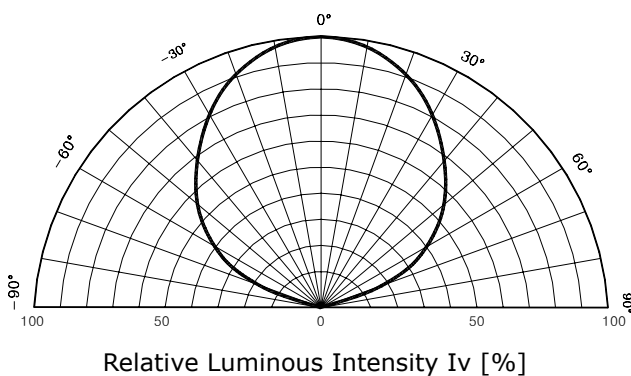
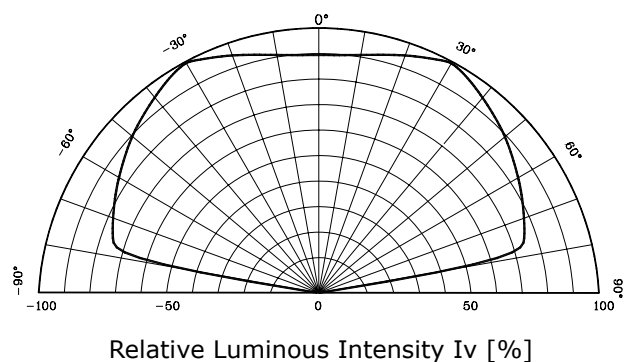


Fig. 5 Radiation Diagram



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