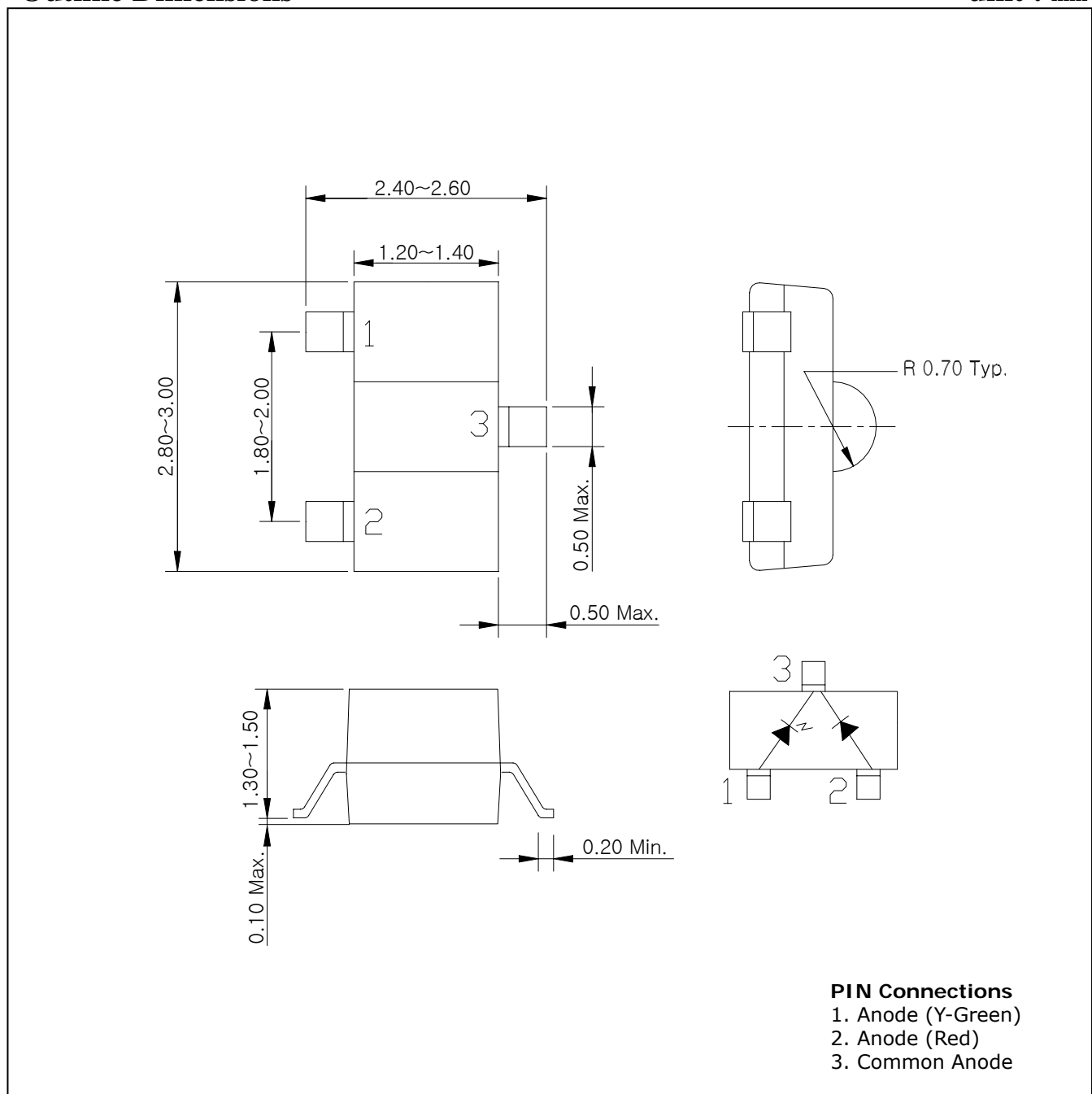


Features

- Compact type
- Radiation size 1.3mm × 2.9mm
- Radiation color (Y-Green, Red)
- Surface mount lead configuration

Outline Dimensions

unit : mm



Absolute Maximum Ratings

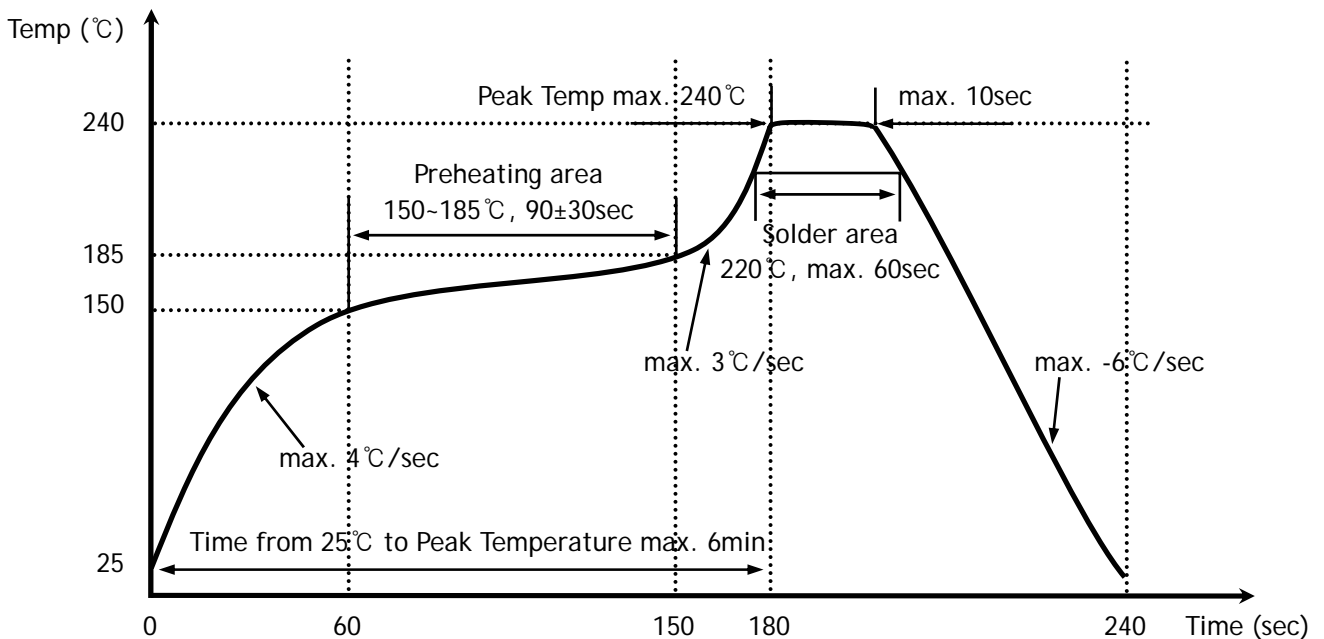
(Ta=25°C)

| Characteristic | Symbol | Rating | | Unit |
|-----------------------------|-----------|---------------------|---------|------|
| | | Red | Y-Green | |
| Power dissipation | P_D | 75 | 75 | mW |
| Forward current | I_F | 30 | 30 | mA |
| *1 Peak forward current | I_{FP} | 50 | 50 | mA |
| Reverse voltage | V_R | 4 | 4 | V |
| Operating temperature range | T_{opr} | -25 ~ 85 | | °C |
| Storage temperature range | 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 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_F | Red | - | 2.1 | 2.5 | V |
| | | Y-Green | - | 2.1 | 2.5 | |
| Luminous intensity | I_V | Red | - | 88 | - | mcd |
| | | Y-Green | - | 44 | - | |
| Peak wavelength | λ_P | Red | - | 660 | - | nm |
| | | Y-Green | - | 570 | - | |
| Spectrum bandwidth | $\Delta\lambda$ | Red | - | 20 | - | nm |
| | | Y-Green | - | 30 | - | |
| Reverse current | I_R | $V_R=4V$ | - | - | 10 | µA |
| *3 Half angle | $\theta_{1/2}$ | $I_F=20mA$ | - | ±55 | - | deg |

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

Characteristic Diagrams

Fig. 1 $I_F - V_F$

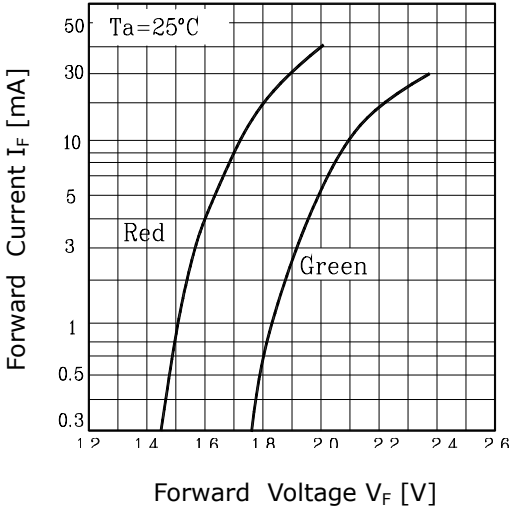


Fig. 2 $I_V - I_F$

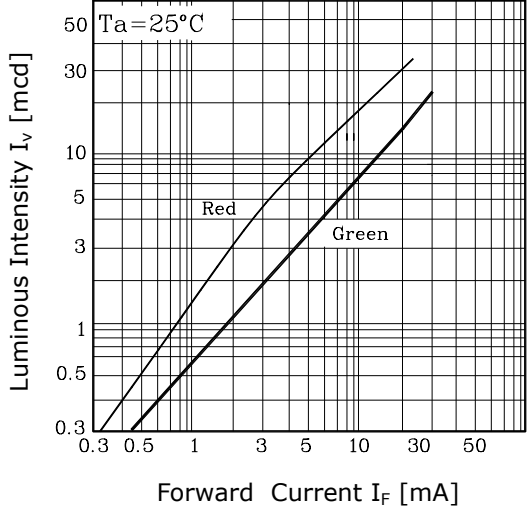


Fig. 3 $I_F - T_a$

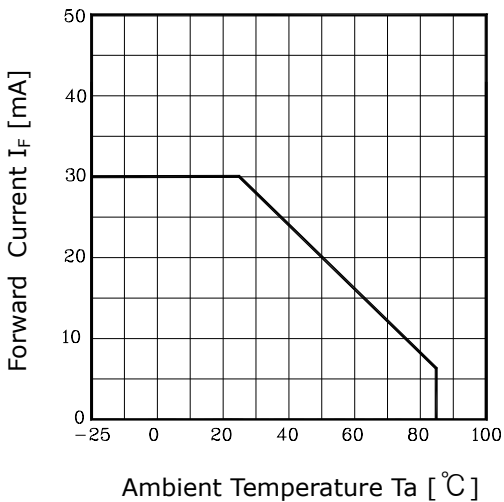


Fig.4 Spectrum Distribution

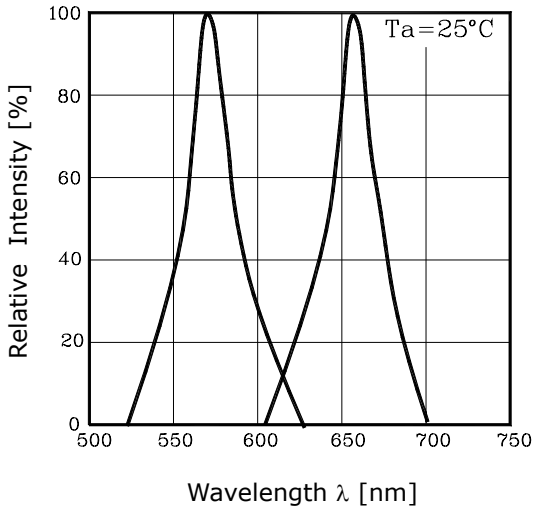
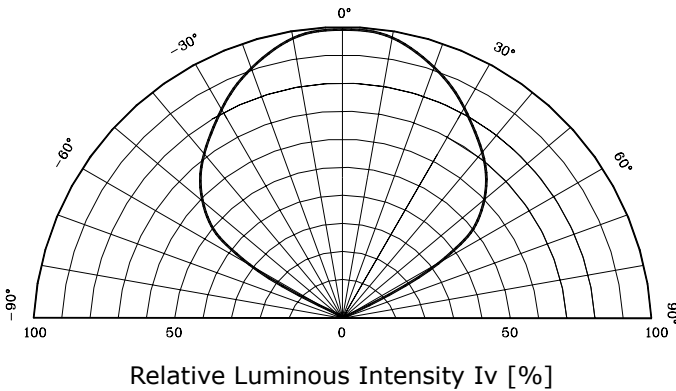


Fig. 5 Radiation Diagram



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