

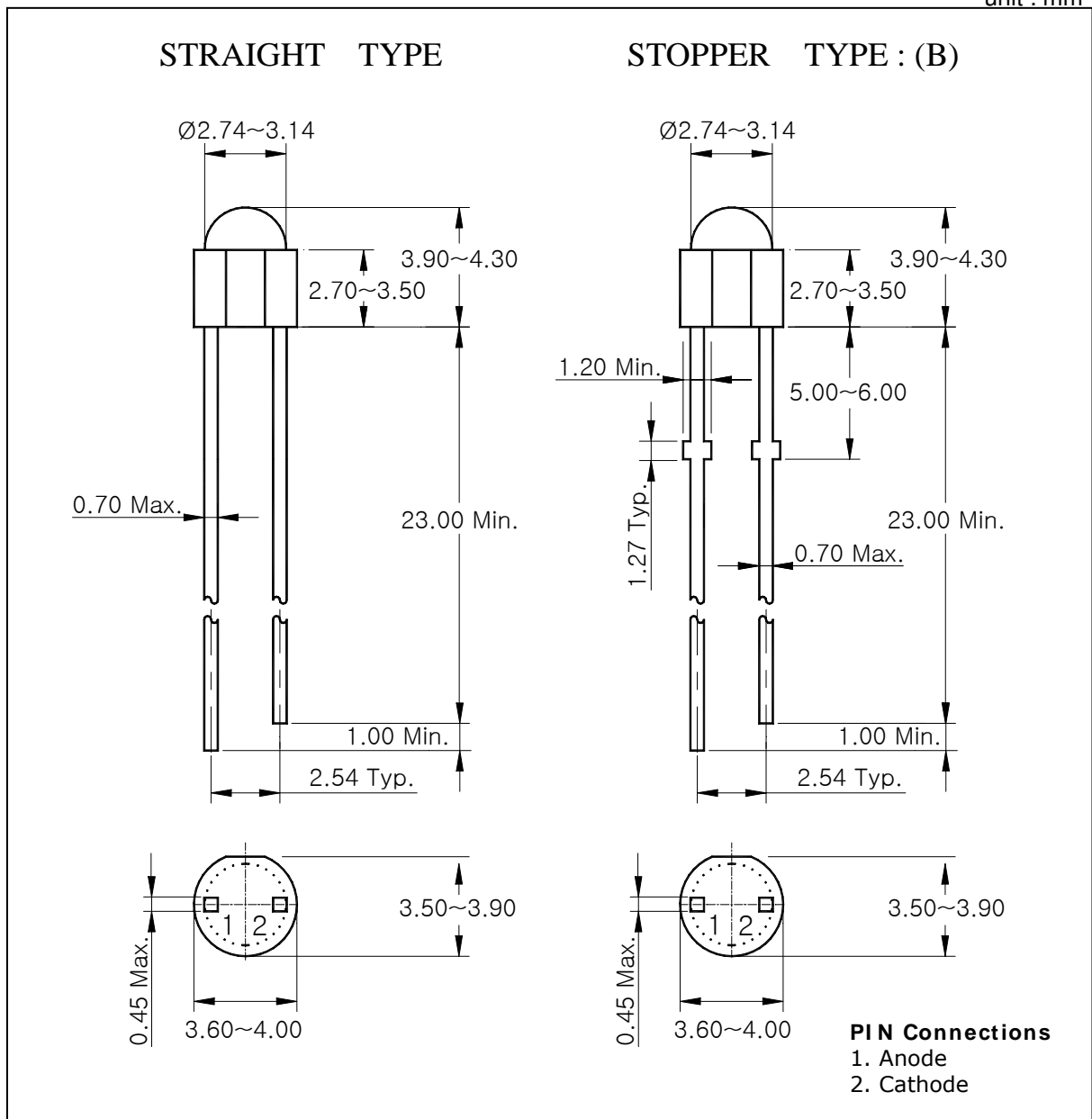
SR3518 / SR3518(B)

1. Features

- ◆ Red colored diffusion lens type
- ◆ $\phi 3\text{mm}$ (T-1) all plastic mold type
- ◆ Wide half angle of intensity($\theta_{1/2}=\pm 55^\circ$)

2. Outline Dimensions

unit : mm



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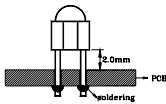
3. Absolute Maximum Ratings

(Ta=25°C)

| Characteristic | Symbol | Rating | Unit |
|-----------------------------|-----------|----------------------|------|
| Power dissipation | P_D | 25 | mW |
| Forward current | I_F | 10 | mA |
| *1Peak forward current | I_{FP} | 50 | mA |
| Reverse voltage | V_R | 4 | V |
| Operating temperature range | T_{opr} | -25~85 | °C |
| Storage temperature range | T_{stg} | -30~100 | °C |
| *2Soldering temperature | T_{sol} | 260°C for 10 seconds | |

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

*2.Keep the distance more than 2.0mm from PCB to the bottom of LED package



4. Electrical / Optical Characteristics

(Ta=25°C)

| Characteristic | Symbol | Test Condition | Min | Typ | Max | Unit |
|--------------------|-----------------|----------------|-----|----------|-----|---------|
| Forward voltage 1 | V_F | $I_F = 1\mu A$ | 1.3 | - | - | V |
| Forward voltage 2 | V_F | $I_F = 5mA$ | - | 2.0 | 2.5 | V |
| Luminous intensity | I_v | $I_F = 5mA$ | - | 2 | - | mcd |
| Peak wavelength | λ_p | $I_F = 5mA$ | - | 700 | - | nm |
| Spectrum bandwidth | $\Delta\lambda$ | $I_F = 5mA$ | - | 100 | - | nm |
| Reverse current | I_R | $V_R = 4V$ | - | - | 10 | μA |
| *3Half angle | $\theta_{1/2}$ | $I_F = 5mA$ | - | ± 55 | - | deg |

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

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5. Characteristic Diagrams

Fig. 1 $I_F - V_F$

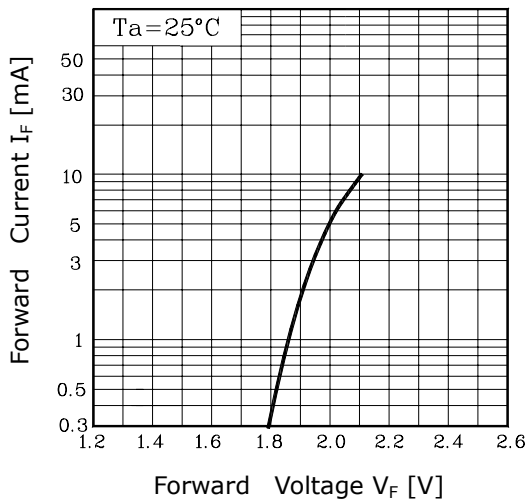


Fig. 2 $I_V - I_F$

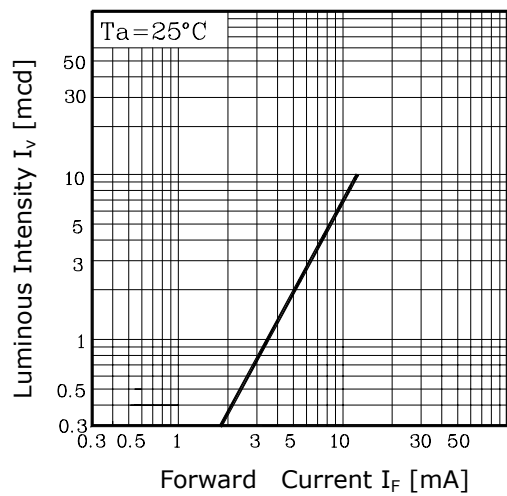


Fig. 3 $I_F - T_a$

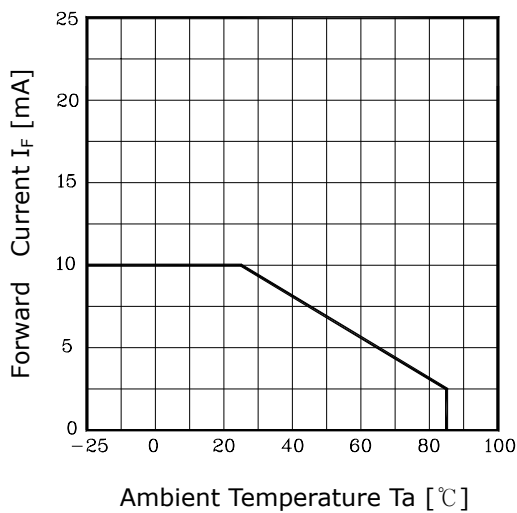


Fig. 4 Spectrum Distribution

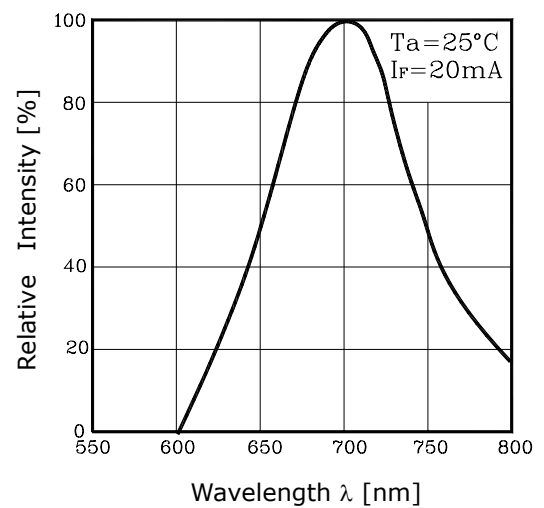
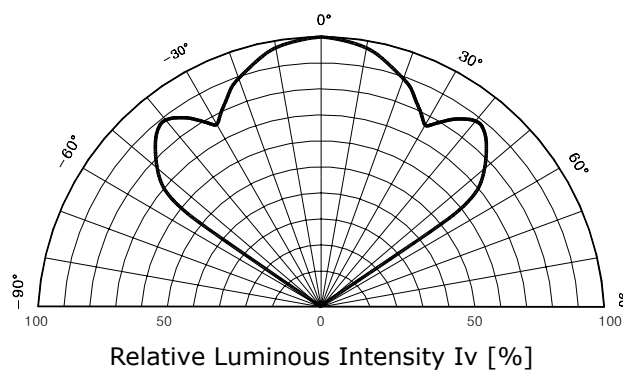


Fig. 5 Radiation Diagram



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