



# SG3317 / SG3317(B)

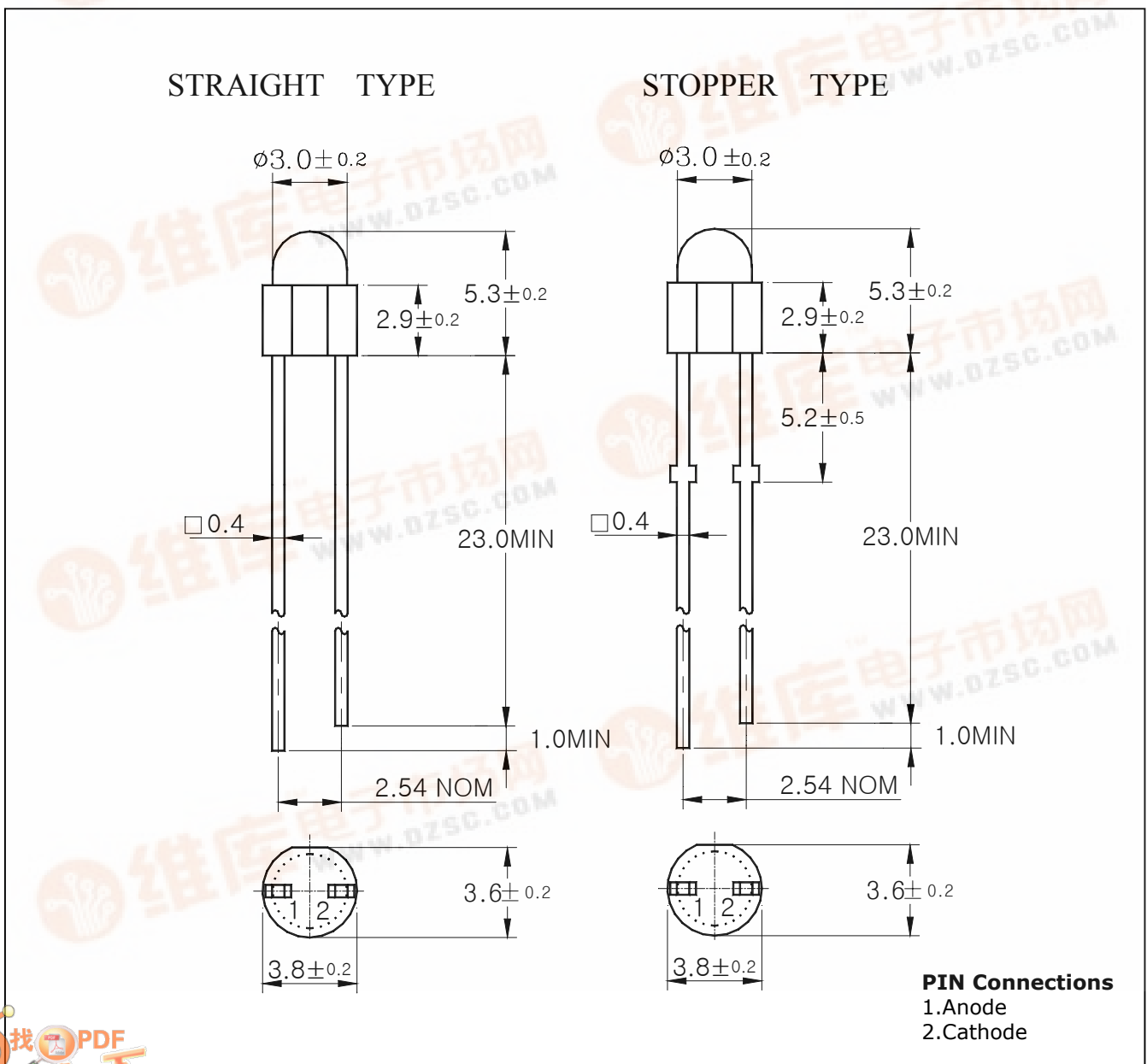
LED Lamp

## Features

- Colorless transparency lens type
- $\phi 3\text{mm}$ (T-1) all plastic mold type
- Available on tape

## Outline Dimensions

unit : mm



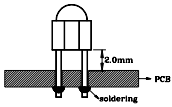
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## Absolute maximum ratings

| Characteristic                       | Symbol    | Ratings              | Unit |
|--------------------------------------|-----------|----------------------|------|
| Power Dissipation                    | $P_D$     | 85                   | mW   |
| Forward Current                      | $I_F$     | 30                   | mA   |
| * <sup>1</sup> Peak Forward Current  | $I_{FP}$  | 50                   | mA   |
| Reverse Voltage                      | $V_R$     | 4                    | V    |
| Operating Temperature                | $T_{opr}$ | -25 ~ 85             | °C   |
| Storage Temperature                  | $T_{stg}$ | -30 ~ 100            | °C   |
| * <sup>2</sup> Soldering Temperature | $T_{sol}$ | 260 °C for 5 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



## Electrical Characteristics

| Characteristic                    | Symbol           | Test Condition      | Min | Typ | Max | Unit |
|-----------------------------------|------------------|---------------------|-----|-----|-----|------|
| Forward Voltage                   | $V_F$            | $I_F = 20\text{mA}$ | -   | 2.1 | 2.8 | V    |
| * <sup>4</sup> Luminous Intensity | $I_V$            | $I_F = 20\text{mA}$ | 17  | 43  | 100 | mcd  |
| Peak Wavelength                   | $\lambda_P$      | $I_F = 20\text{mA}$ | -   | 557 | -   | nm   |
| Spectrum Bandwidth                | $\Delta \lambda$ | $I_F = 20\text{mA}$ | -   | 30  | -   | nm   |
| Reverse Current                   | $I_R$            | $V_R = 4\text{V}$   | -   | -   | 10  | uA   |
| * <sup>3</sup> Half Angle         | $\theta_{1/2}$   | $I_F = 20\text{mA}$ | -   | ±22 | -   | deg  |

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

\*4. Luminous Intensity Maximum tolerance for each Grade Classification limit is ±18%

\*4. Luminous Intensity classification

| H     | I     | J     | K      |
|-------|-------|-------|--------|
| 17~27 | 27~43 | 43~68 | 68~100 |

## Characteristic Diagrams

Fig. 1  $I_F - V_F$

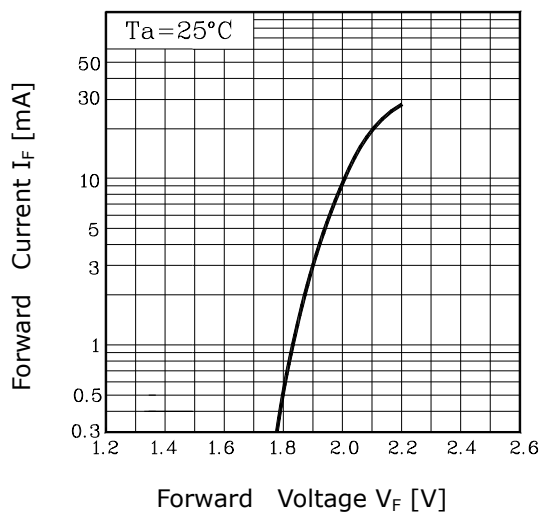


Fig. 2  $I_V - I_F$

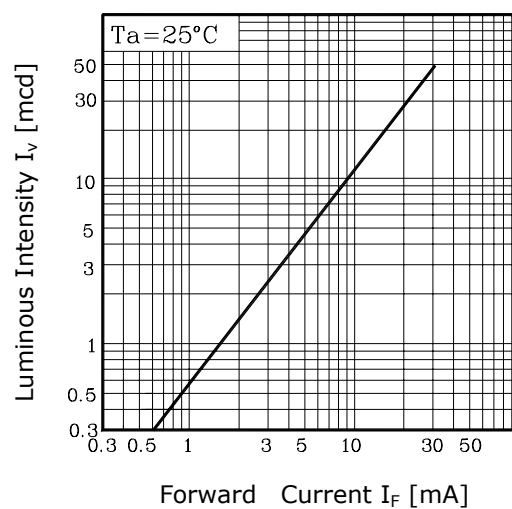


Fig. 3  $I_F - T_a$

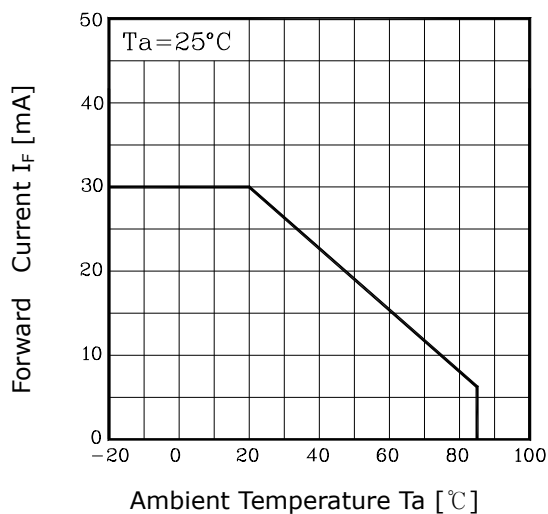


Fig. 4 Spectrum Distribution

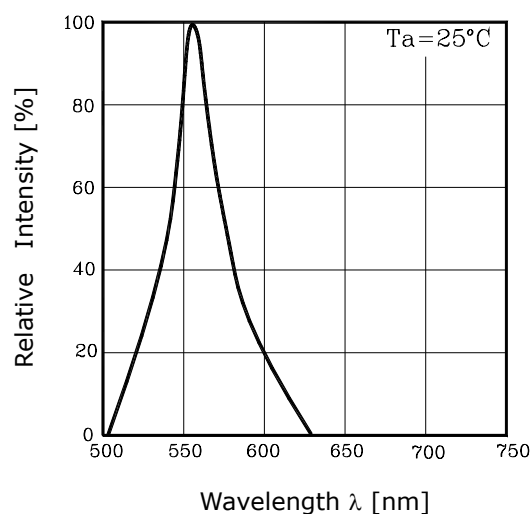


Fig. 5-1 Radiation Diagram

