

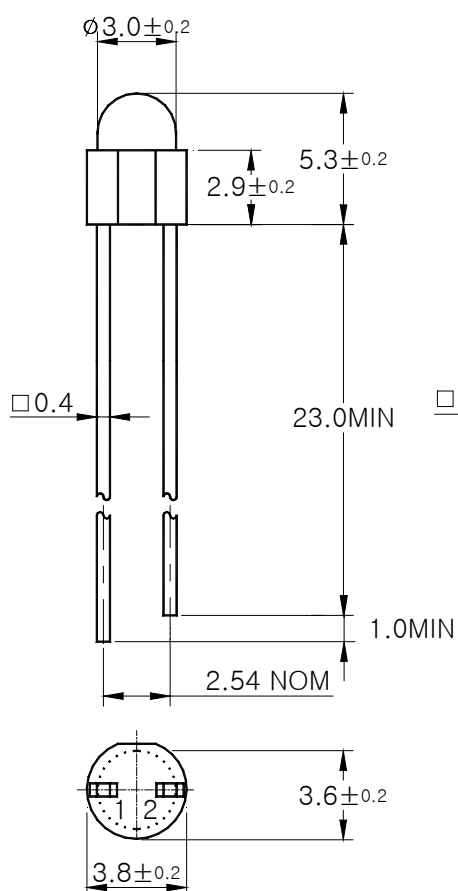
## Features

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

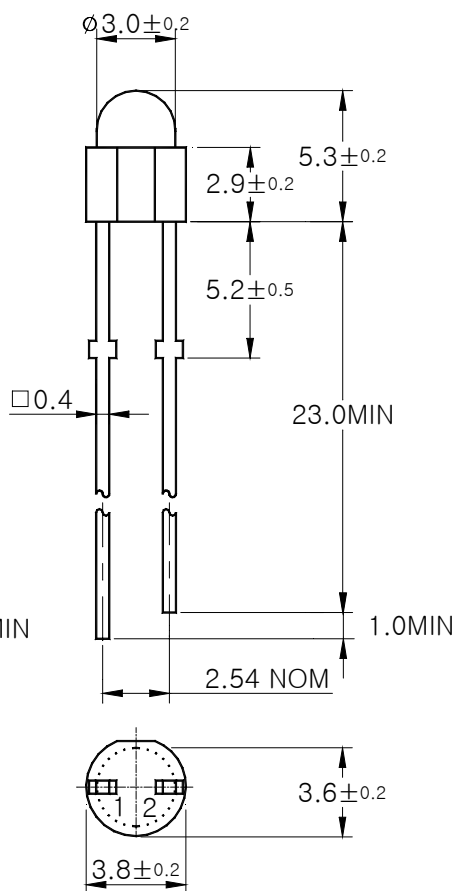
## Outline Dimensions

unit : mm

STRAIGHT TYPE



STOPPER TYPE



### PIN Connections

1. Anode
2. Cathode

**Absolute maximum ratings**

Characteristic	Symbol	Ratings	Unit
Power Dissipation	$P_D$	85	mW
Forward Current	$I_F$	20	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
Soldering Temperature	$T_{sol}$	250°C for 3 seconds	

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

**Electrical Characteristics**

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	-	3.4	3.8	V
* <sup>2</sup> Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	155	230	520	mcd
* <sup>3</sup> Dominant Wavelength	$\lambda_D$	$I_F = 20\text{mA}$	-	465	-	nm
Spectrum Bandwidth	$\Delta \lambda$	$I_F = 20\text{mA}$	-	26	-	nm
Reverse Current	$I_R$	$V_R = 4\text{V}$	-	-	10	uA
* <sup>4</sup> Half angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	±45	-	deg

\*2. Luminous Intensity Maximum tolerance for each Grade Classification limit is ±18%

\*3. Dominant Wavelength Maximum tolerance for each Grade Classification limit is ±1nm

\*4.  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity

●  $V_F / I_V / \lambda_p$  Grade Classification

Test Condition @ $I_F = 20\text{mA}$		
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant eavelength [nm]
1 = 2.9 ~ 3.2	M = 155 ~ 230	a = 460 ~ 465
2 = 3.2 ~ 3.5	N = 230 ~ 350	
3 = 3.5 ~ 3.8	O = 350 ~ 520	b = 466 ~ 470

## Characteristic Diagrams

Fig. 1  $I_F - V_F$

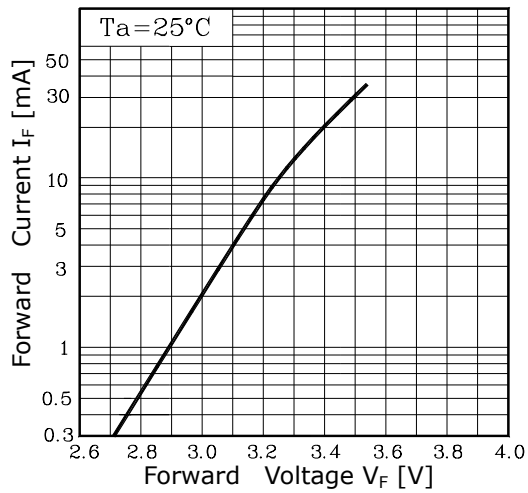


Fig. 2  $I_V - I_F$

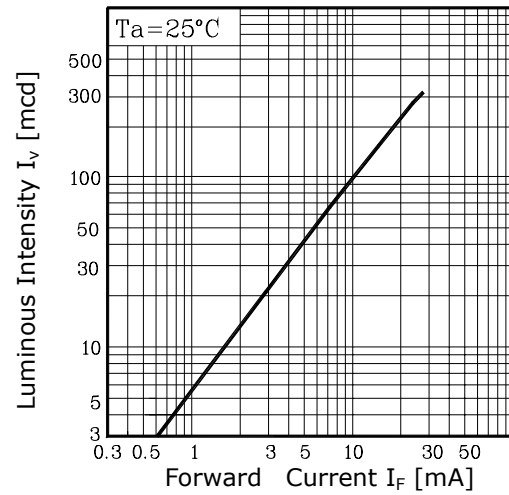


Fig. 3  $I_F - T_a$

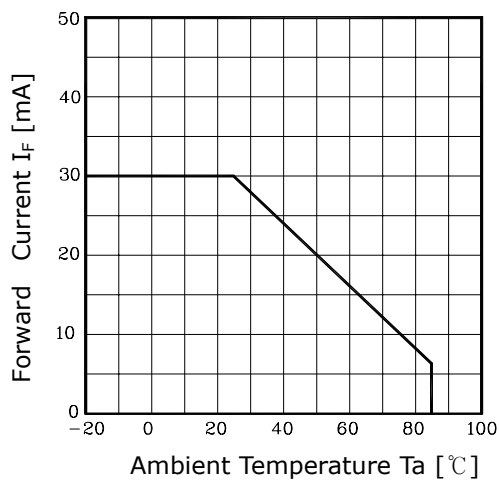


Fig. 4 Spectrum Distribution

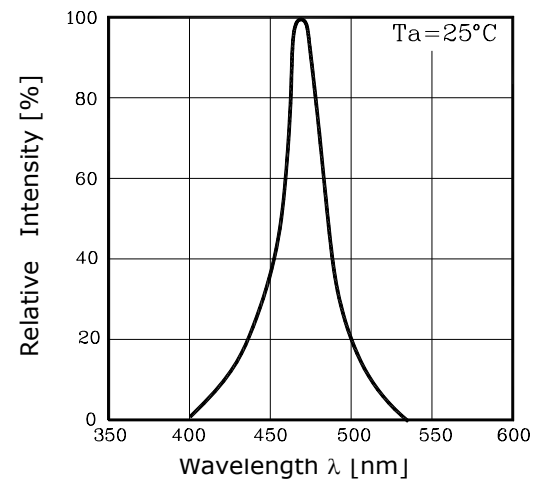
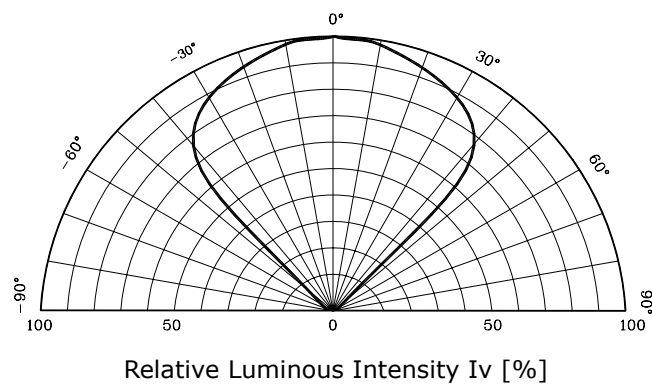


Fig. 5 Radiation Diagram



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