

**Features**

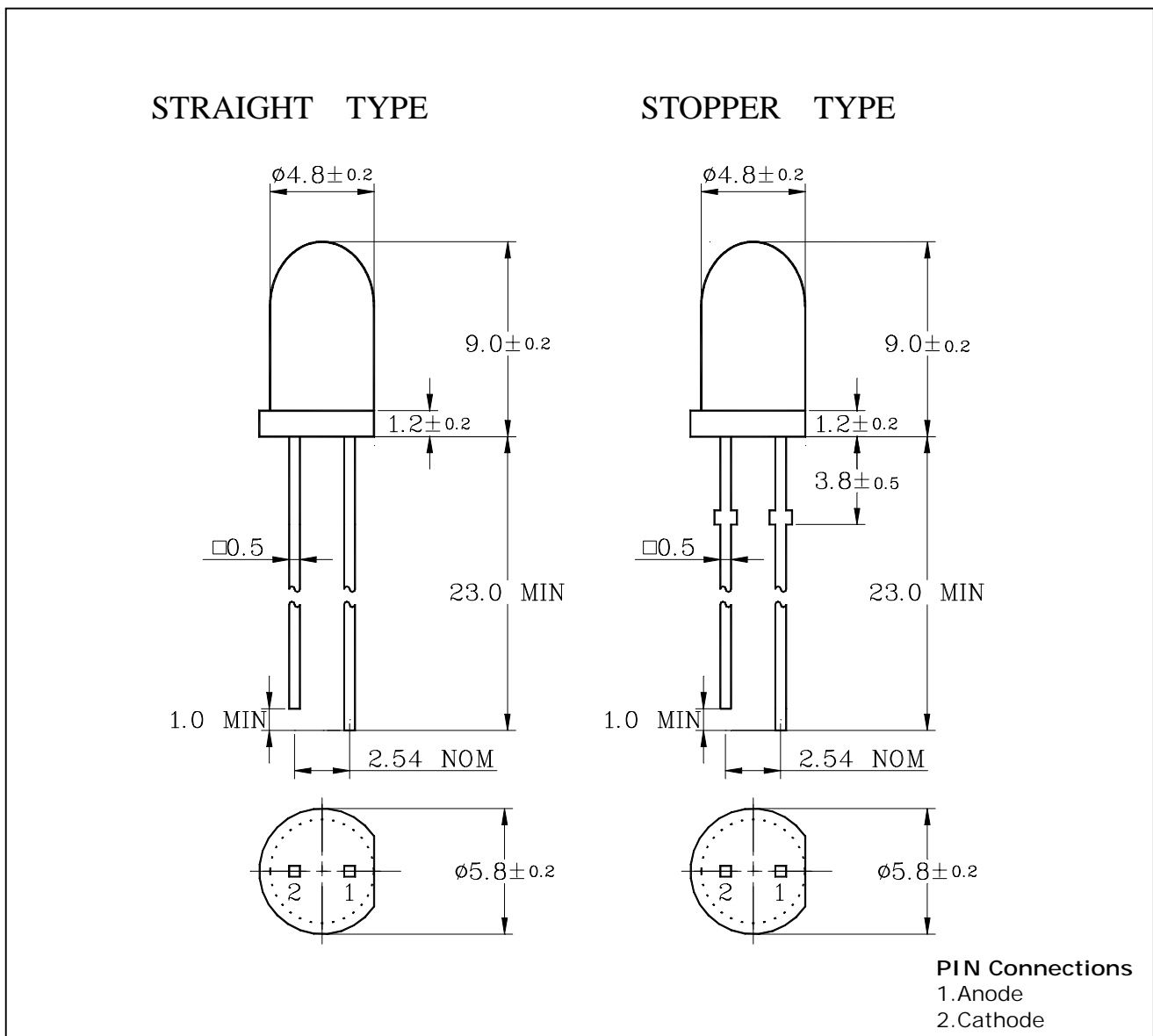
- Colorless transparency lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Ultra luminosity

**Application**

- Message panels
- Backlighting
- Indicator lamp

**Outline Dimensions**

**unit : mm**



**Absolute maximum ratings**

Characteristic	Symbol	Ratings	Unit
Power Dissipation	$P_D$	75	mW
Forward Current	$I_F$	30	mA
*1Peak Forward Current	$I_{FP}$	50	mA
Reverse Voltage	$V_R$	4	V
Operating Temperature	$T_{opr}$	-20 85	
Storage Temperature	$T_{stg}$	-30 100	
*2Soldering Temperature	$T_{sol}$	260 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

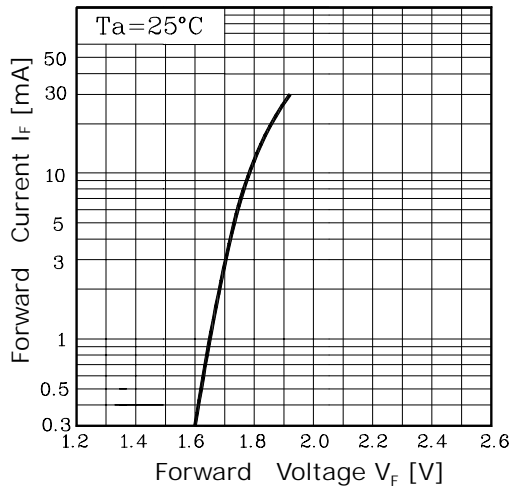
**Electrical Characteristics**

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 20\text{mA}$	-	1.85	2.5	V
Luminous Intensity	$I_V$	$I_F = 20\text{mA}$	-	2500	-	mcd
Peak Wavelength	$\lambda_P$	$I_F = 20\text{mA}$	-	660	-	nm
Spectrum Bandwidth		$I_F = 20\text{mA}$	-	20	-	nm
Reverse Current	$I_R$	$V_R = 4\text{V}$	-	-	10	$\mu\text{A}$
*3Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	$\pm 8$	-	deg

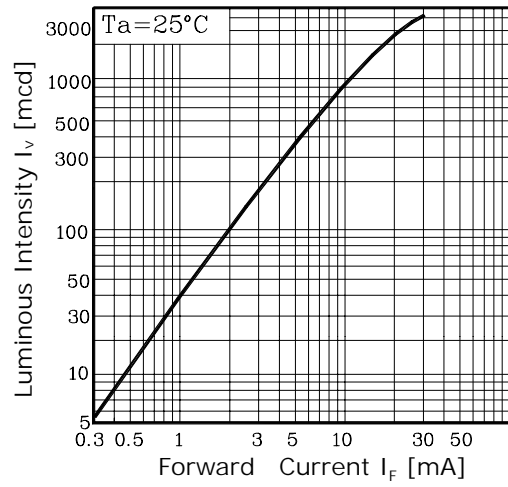
\*3.  $\theta_{1/2}$  is the off-axis angle where the luminous intensity is 1/2 the peak intensity

## Characteristic Diagrams

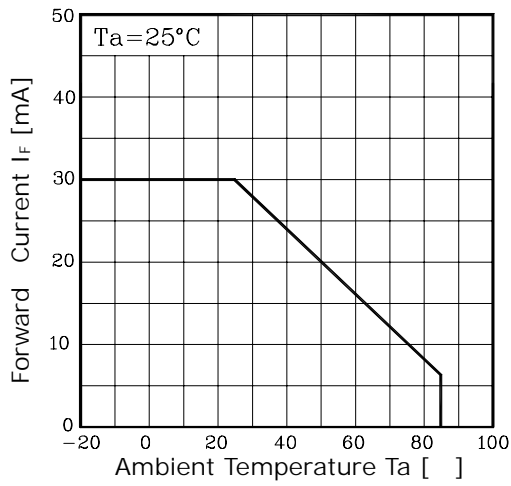
**Fig. 1  $I_F - V_F$**



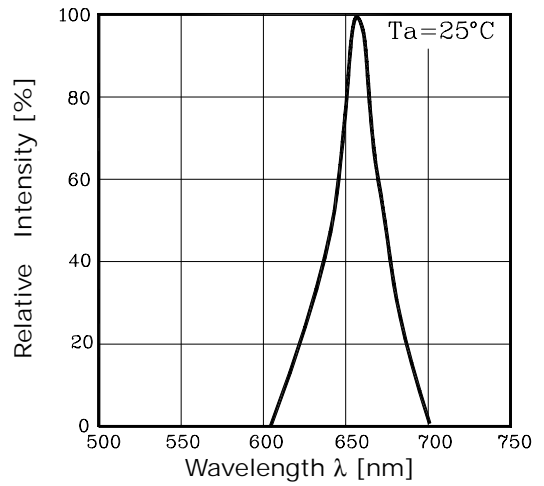
**Fig. 2  $I_V - I_F$**



**Fig. 3  $I_F - T_a$**



**Fig. 4 Spectrum Distribution**



**Fig. 5 Radiation Diagram**

