

Features

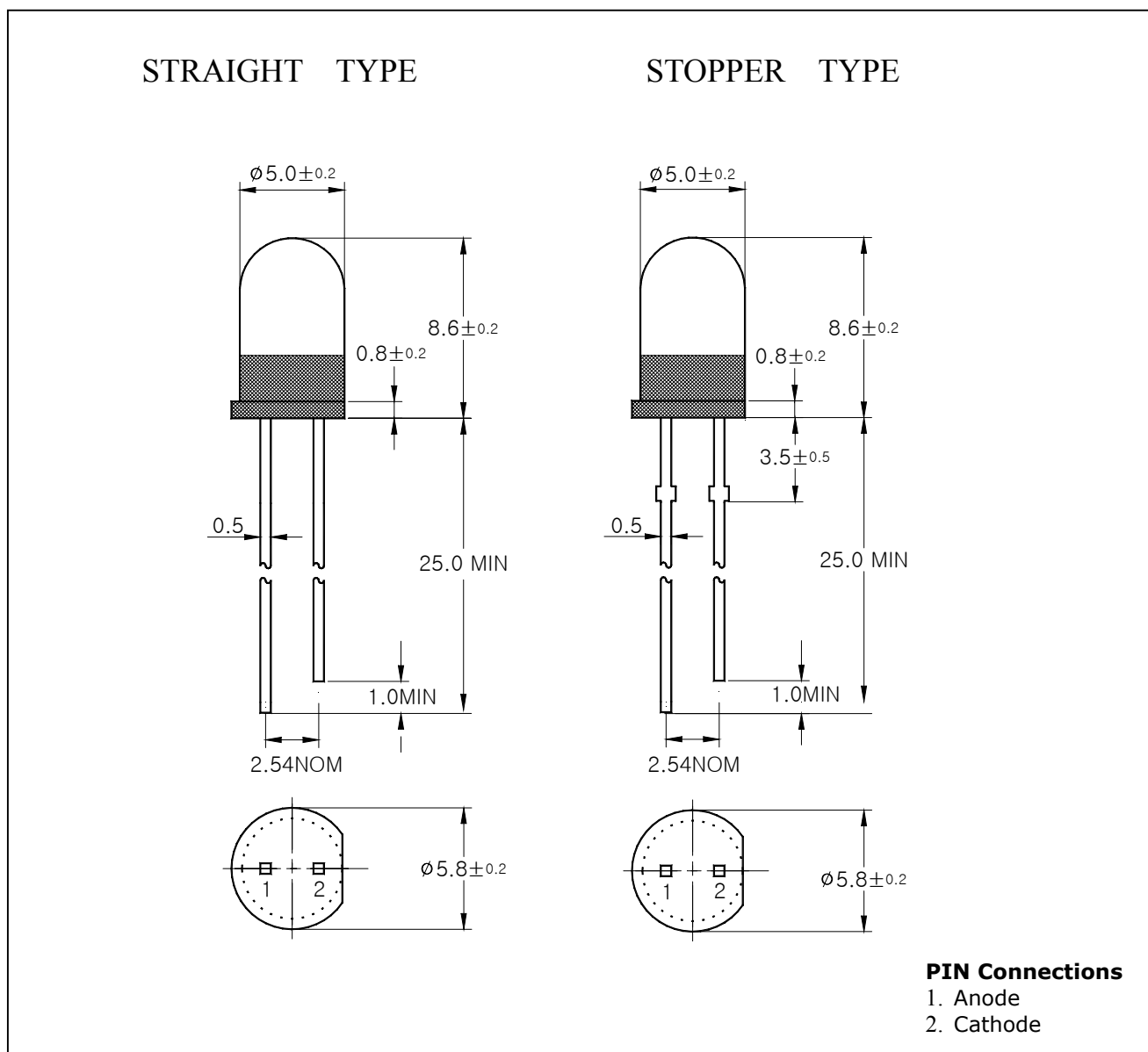
- Red Colored lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Super luminosity

Application

- Traffic Signal
- Message Board
- Variable message signs(VMS)

Outline Dimensions

unit : mm

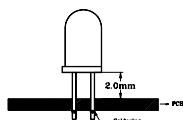


Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	100	mW
Forward Current	I_F	40	mA
* ¹ 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
* ² 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	$I_F = 20\text{mA}$	-	2.0	2.5	V
* ⁴ Luminous Intensity	I_V	$I_F = 20\text{mA}$	520	1170	2640	mcd
Peak Wavelength	λ_p	$I_F = 20\text{mA}$	-	630	-	nm
Spectrum Bandwidth	$\Delta \lambda$	$I_F = 20\text{mA}$	-	17	-	nm
Reverse Current	I_R	$V_R = 4\text{V}$	-	-	10	uA
* ³ Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	±20	-	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

P	Q	R	S
520~780	780~1170	1170~1760	1760~2640

Characteristic Diagrams

Fig. 1 $I_F - V_F$

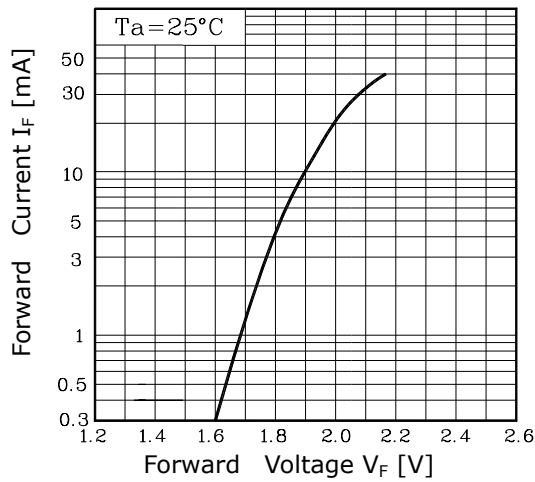


Fig. 2 $I_V - I_F$

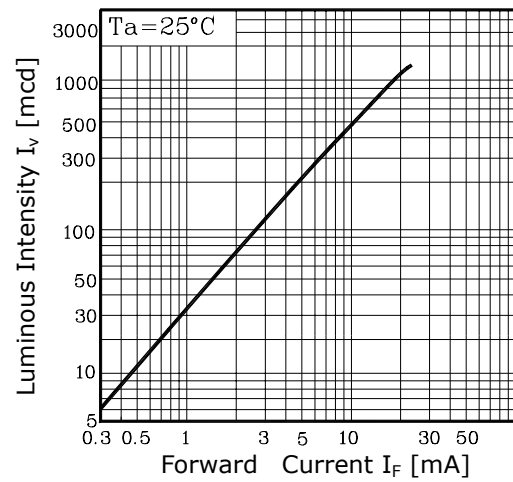


Fig. 3 $I_F - T_a$

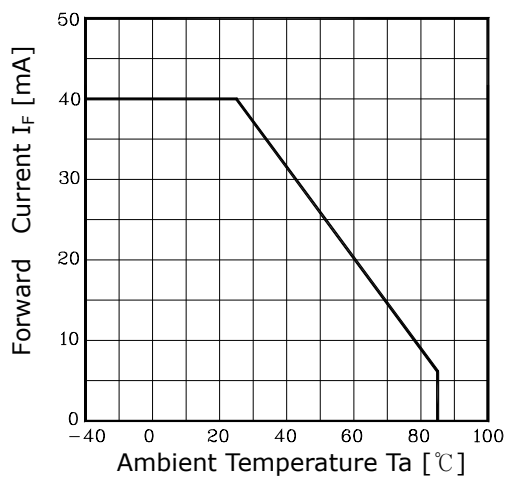


Fig. 4 Spectrum Distribution

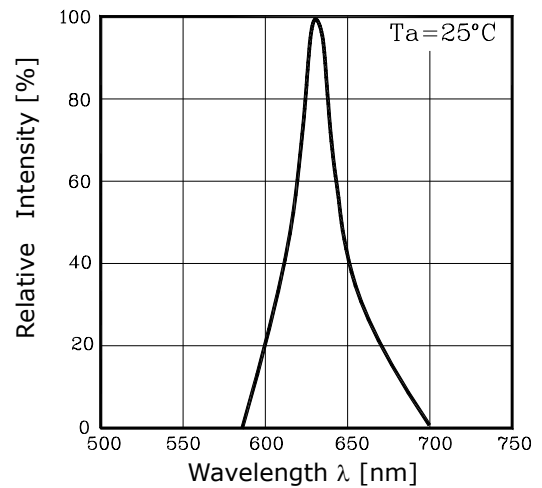
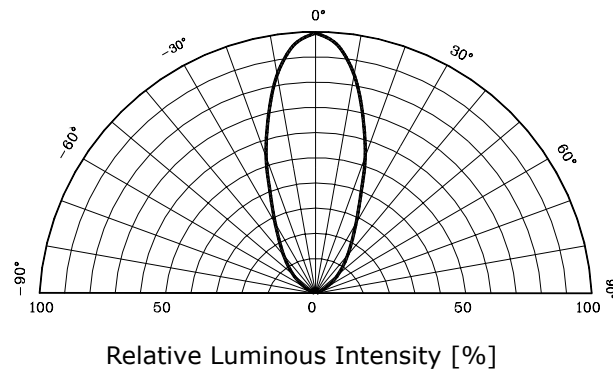


Fig. 5 Radiation Diagram



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