

1. Features

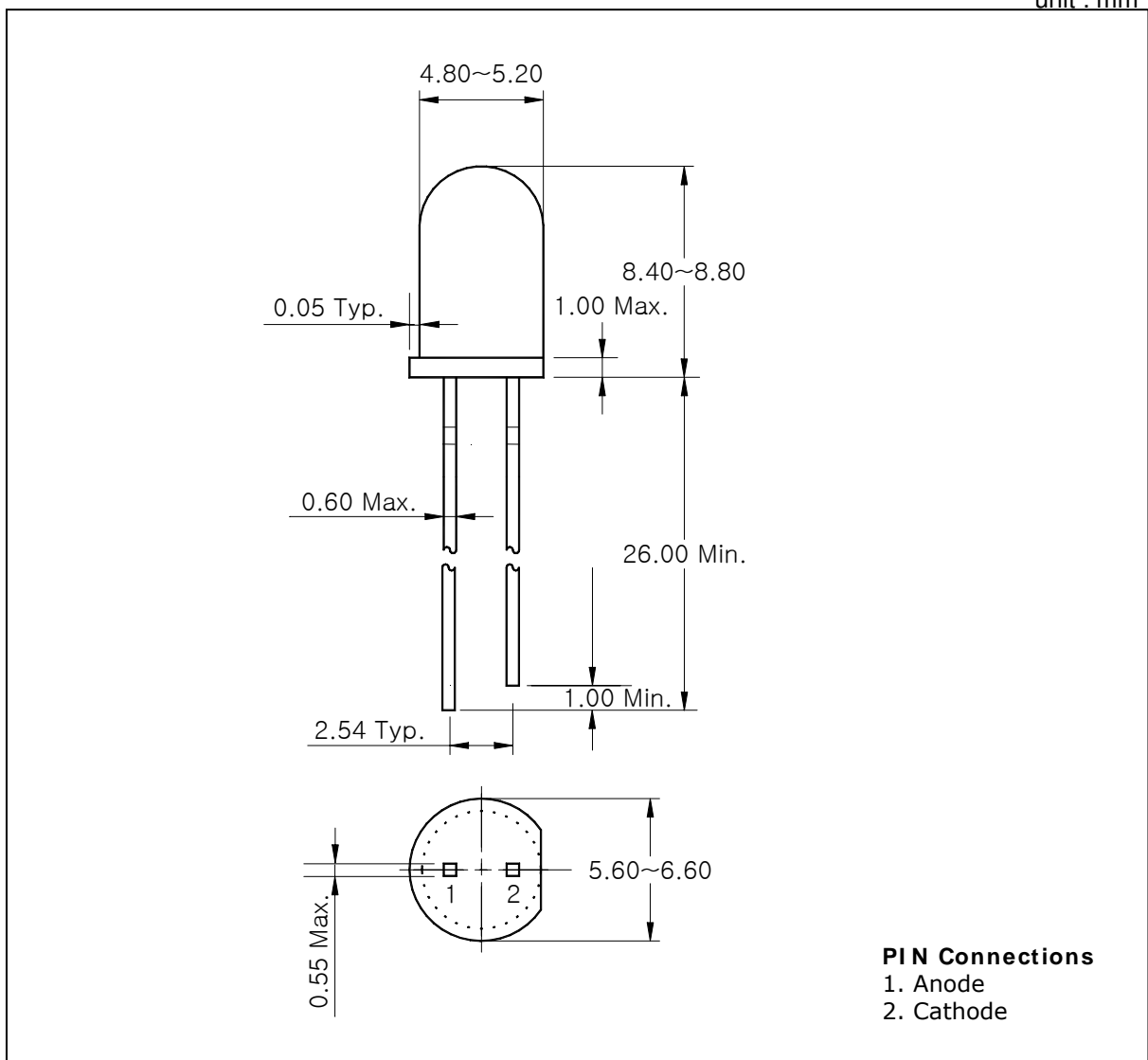
- ◆ Colorless transparency lens type
- ◆ $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- ◆ Super luminosity

2. Application

- ◆ Traffic Signal
- ◆ Message Board

3. Outline Dimensions

unit : mm



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 When using this product, would you please refer to the latest specifications.

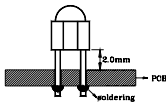
4. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	96	mW
Forward current	I_F	40	mA
*1Peak forward current	I_{FP}	65	mA
Reverse voltage	V_R	4	V
Operating temperature range	T_{opr}	-30~85	°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



5. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F= 5\mu A$	1.2	-	1.8	V
*3Forward voltage	V_F	$I_F= 20mA$	1.9	-	2.4	V
*4Luminous intensity	I_V	$I_F= 20mA$	3400	-	8910	mcd
*5Dominant wavelength	λ_D	$I_F= 20mA$	615	620	625	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F= 20mA$	-	30	-	nm
Reverse current	I_R	$V_R=4V$	-	-	10	μA
*6Half angle	$\theta_{1/2}$	$I_F= 20mA$	-	± 15	-	deg

*3. Forward voltage maximum tolerance for each grade classification limit is $\pm 0.1V$ *4. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$ *5. Dominant wavelength maximum tolerance for each grade classification limit is $\pm 1nm$ *6. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

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6. Characteristic Diagrams

Fig. 1 $I_F - V_F$

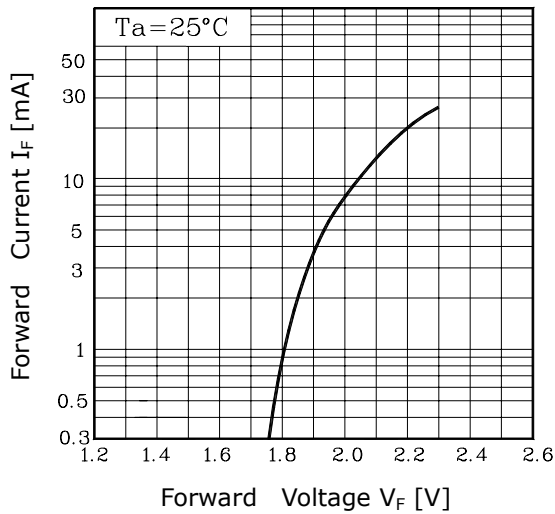


Fig. 2 $I_V - I_F$

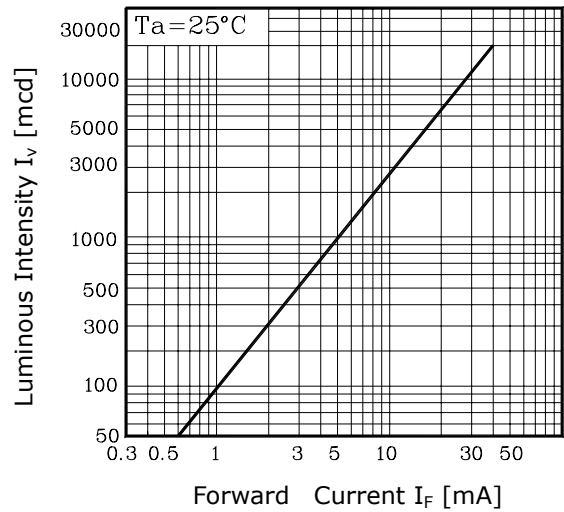


Fig. 3 $I_F - T_a$

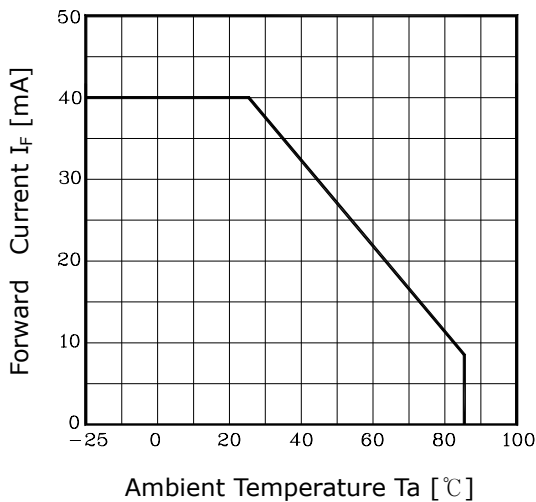


Fig.4 Spectrum Distribution

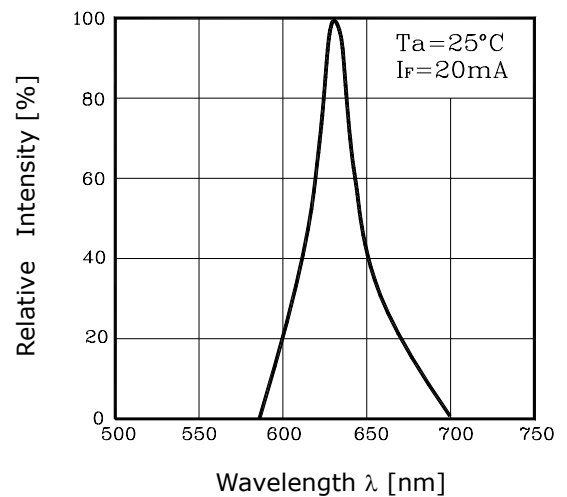
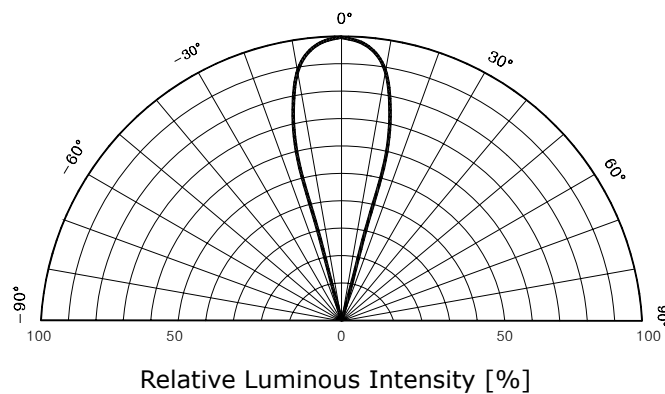


Fig. 5 Radiation Diagram



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