

Features

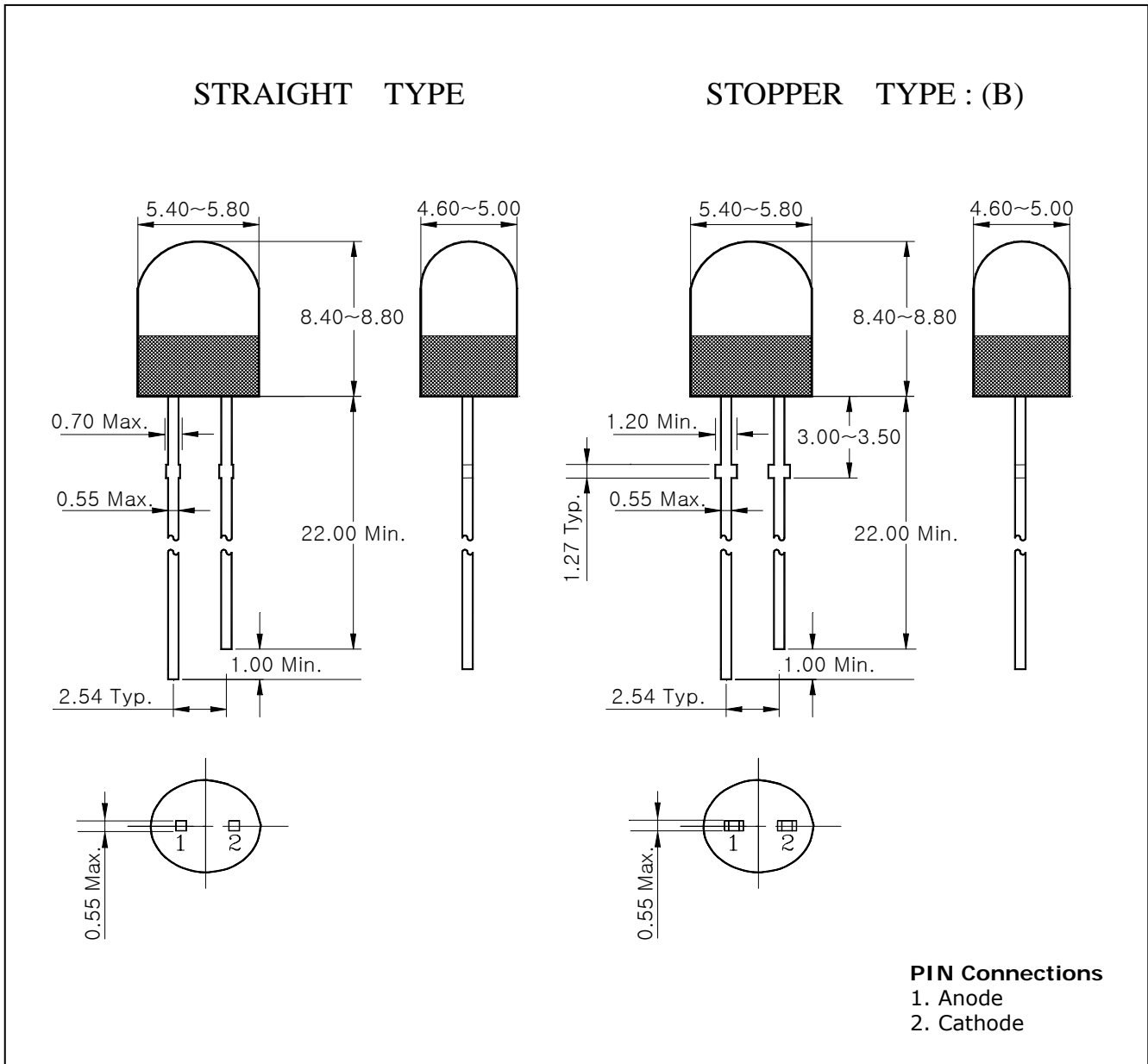
- Colorless transparency lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Super luminosity

Application

- Traffic Signal
- Message Board

Outline Dimensions

unit : mm



SHE1330F / SHE1330F(B)

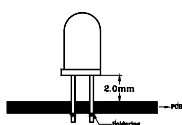
Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	100	mW
Forward current	I_F	40	mA
*1Peak forward current	I_{FP}	50	mA
Reverse voltage	V_R	4	V
Operating temperature range	T_{opr}	-25~85	°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



Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F= 20mA$	-	2.1	2.5	V
*4Luminous intensity	I_V	$I_F= 20mA$	780	-	2100	mcd
Dominant wavelength	λ_D	$I_F= 20mA$	605	610	615	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F= 20mA$	-	35	-	nm
*3Half angle	$\theta_{1/2}$	$I_F= 20mA$	-	± 30	-	deg
			-	± 15	-	

*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 $\pm 18\%$

*4. Luminous Intensity Classification

Q	R ₁	R ₂	S ₁
780~1170	1170~1450	1450~1760	1760~2100

Characteristic Diagrams

Fig. 1 $I_F - V_F$

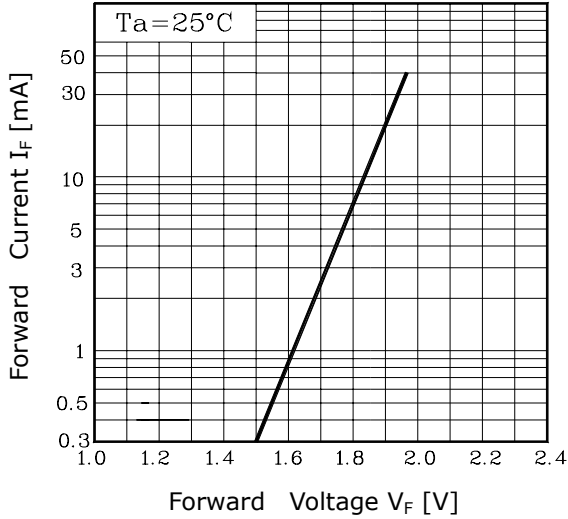


Fig. 2 $I_V - I_F$

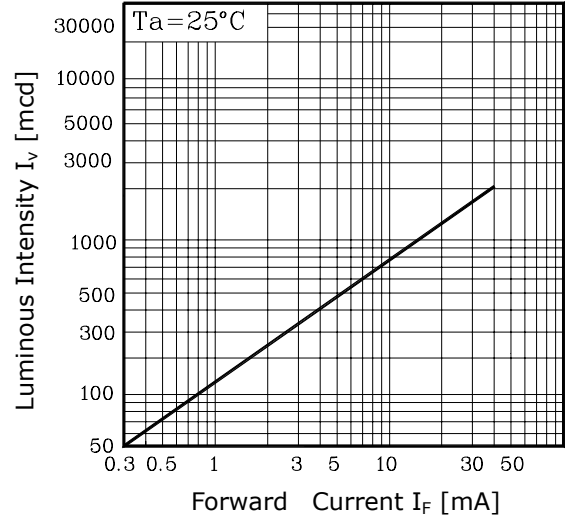


Fig. 3 $I_F - T_a$

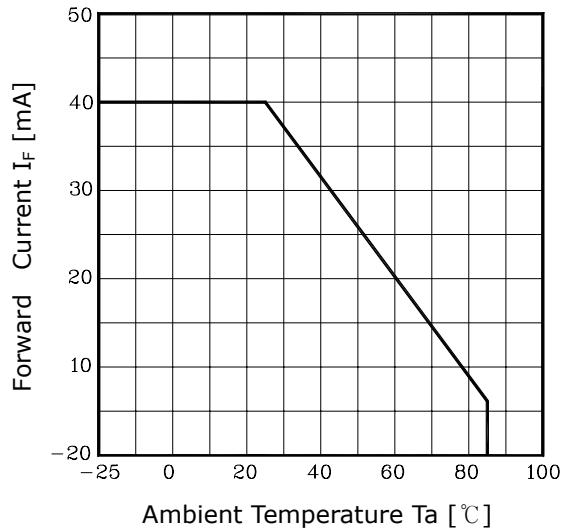


Fig. 4 Spectrum Distribution

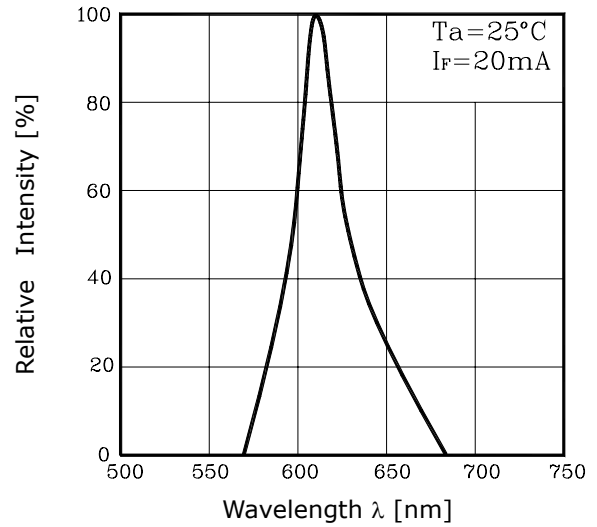


Fig. 5-1 Radiation Diagram(X)

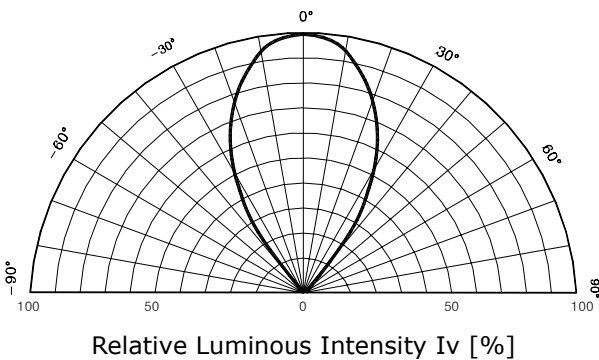
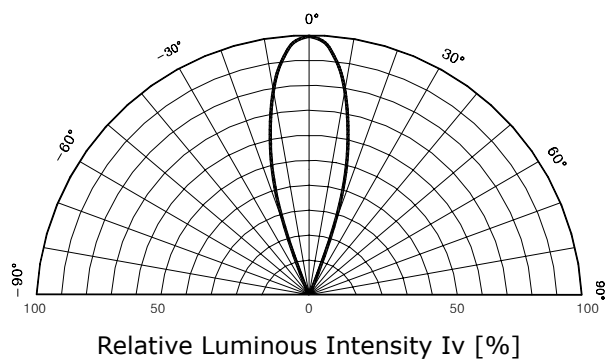


Fig. 5-2 Radiation Diagram(Y)



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