SHE134AE / SHE134AE(B)

Oval Type High Efficiency LED Lamp

Features

- Red colored transparency lens type
- Colorless transparency lens type
- ϕ5mm(T-13/4) all plastic mold type
- Super luminosity

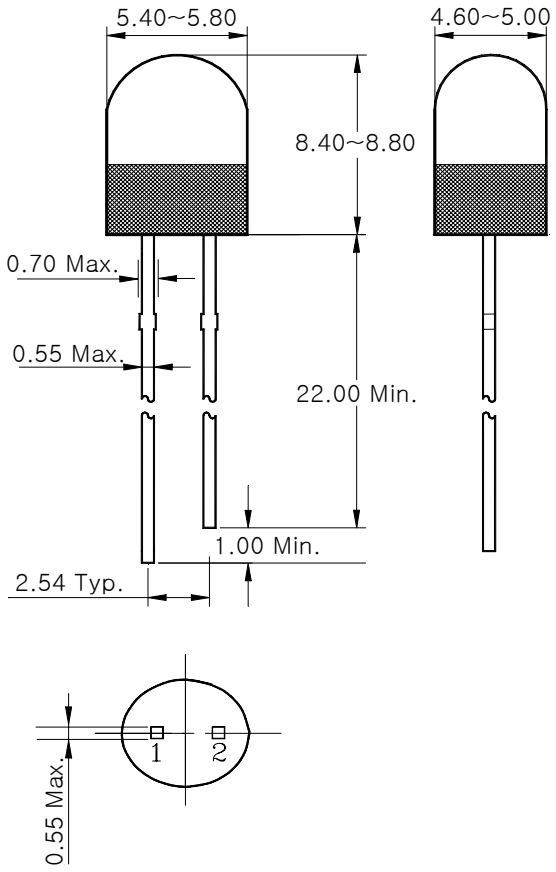
Application

- Traffic Signal
- Message Board

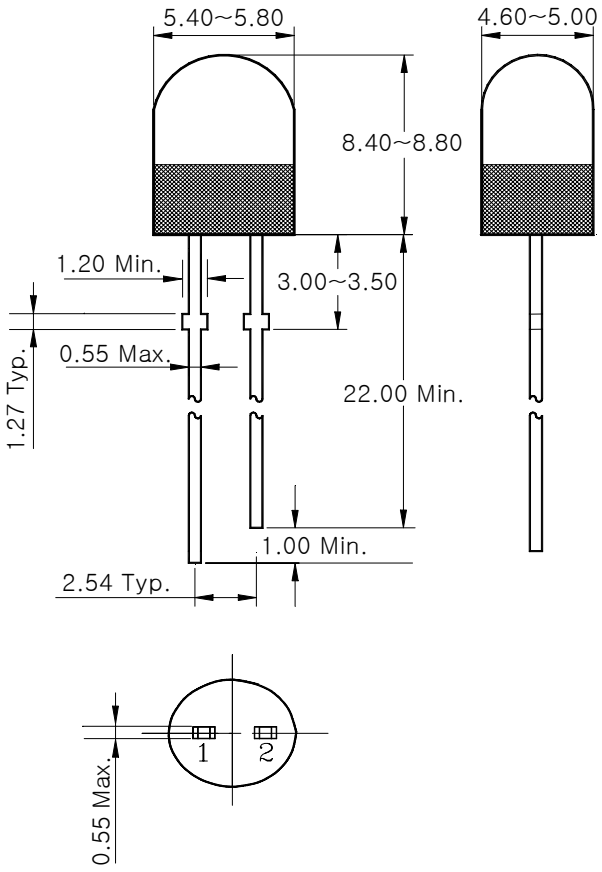
Outline Dimensions

unit : mm

STRAIGHT TYPE



STOPPER TYPE : (B)



PIN Connections
1. Anode
2. Cathode

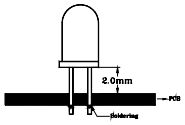
Absolute Maximum Ratings

(Ta=25°C)

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 range	T_{opr}	-25～85	℃
Storage temperature range	T_{stg}	-30～100	℃
*[2]Soldering temperature	T_{sol}	260℃ 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
*[4]Luminous intensity	I_V		I_F= 20mA	780	-	1700	mcd
Dominant wavelength	λ_D		I_F= 20mA	614	622	630	nm
Spectrum bandwidth	$\Delta\lambda$		I_F= 20mA	-	17	-	nm
Reverse current	I_R		V_R=4V	-	-	10	uA
*[3]Half angle	$\theta 1/2$	X	I_F= 20mA	-	±30	-	deg
		Y		-	±15	-	

*3. θ1/2 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

Q_1	Q_2	R_1
780~1010	1010~1300	1300~1700

Characteristic Diagrams

Fig. 1 I_F - V_F

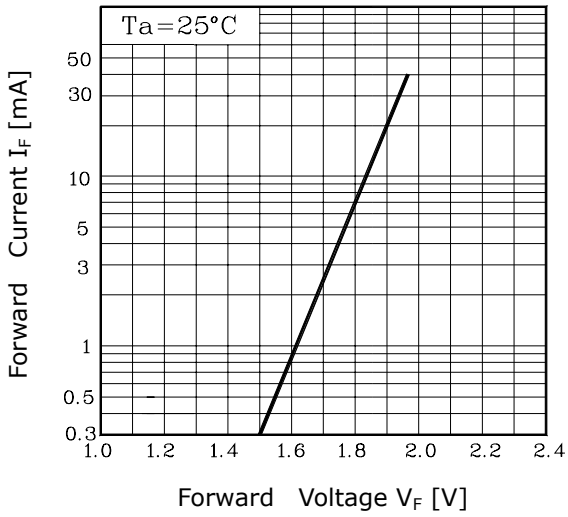


Fig. 2 I_V - I_F

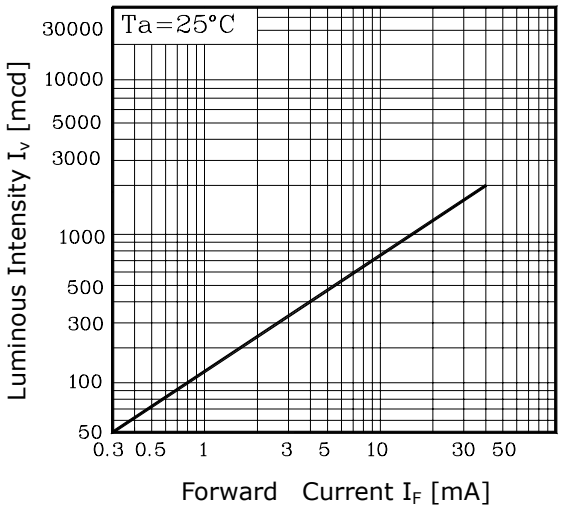


Fig. 3 I_F – Ta

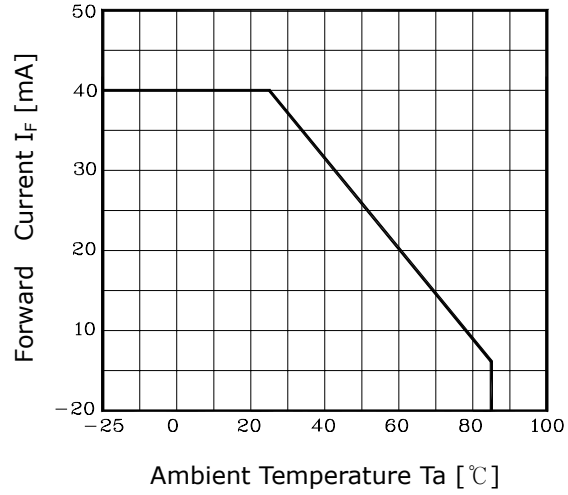


Fig.4 Spectrum Distribution

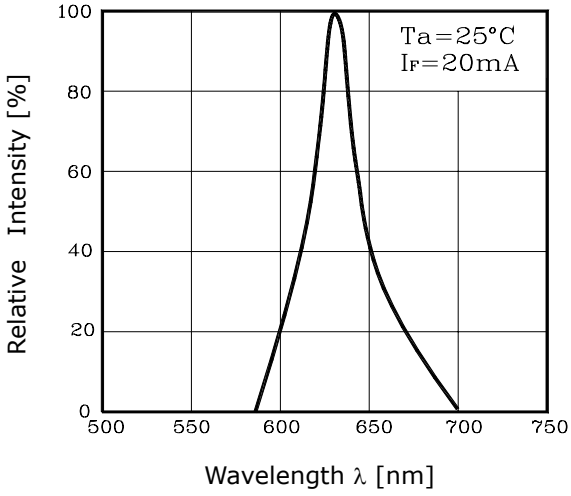


Fig. 5-1 Radiation Diagram(X)

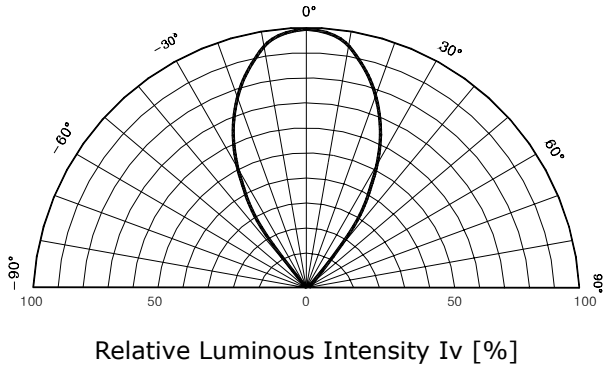
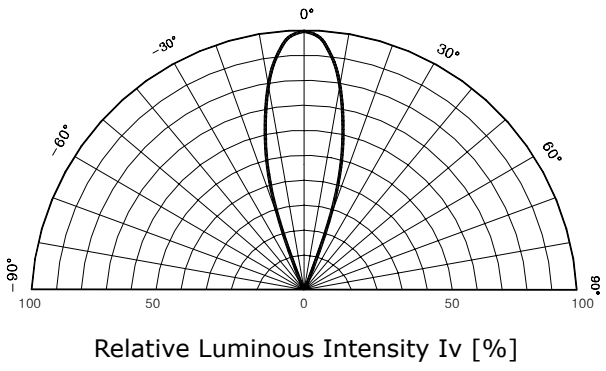


Fig. 5-2 Radiation Diagram(Y)



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