SHE123BFE / SHE123BFE(B)

High Efficiency LED Lamp

Features

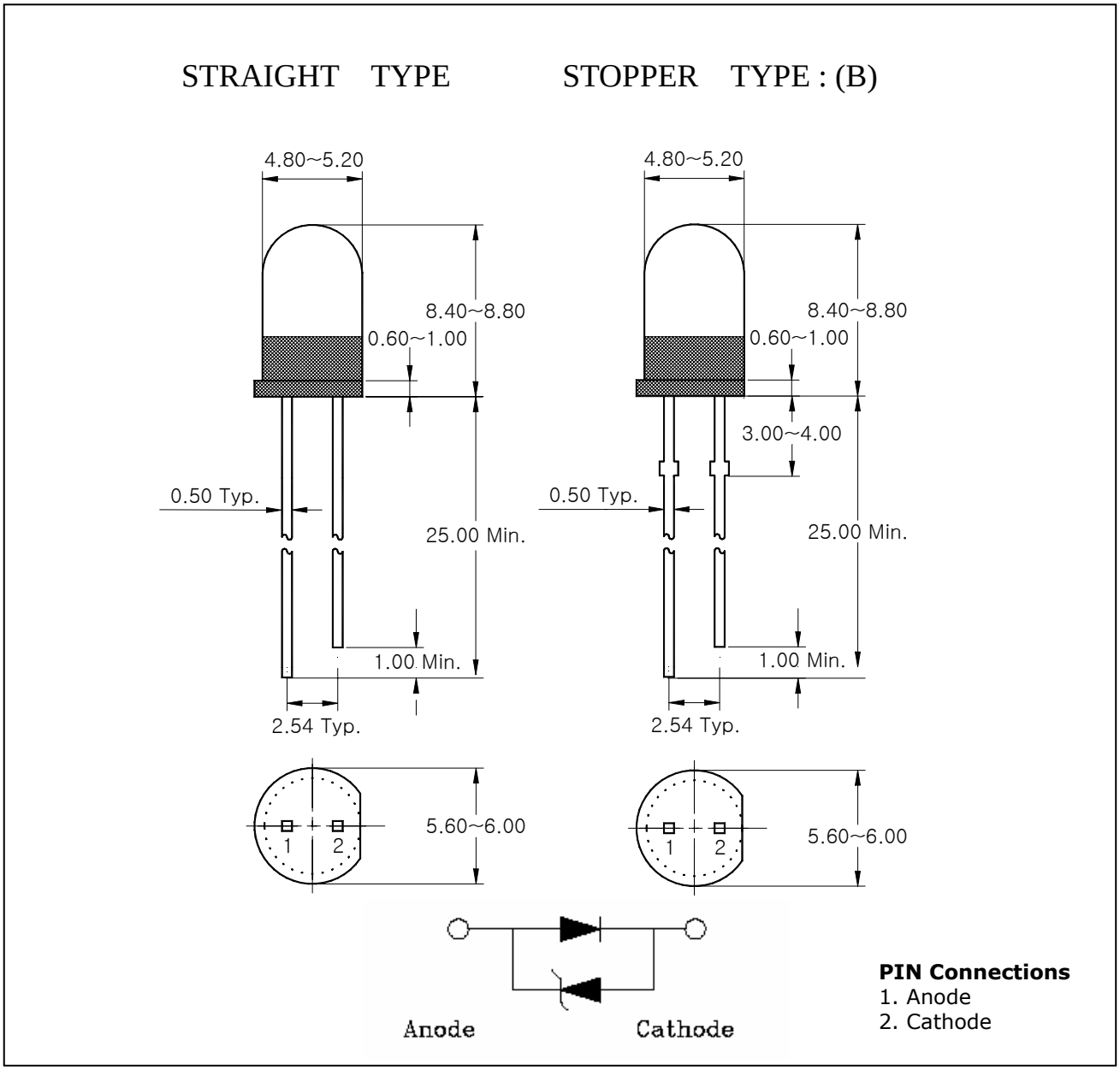
- Colorless transparency lens type
- ϕ5mm(T-13/4) all plastic mold type
- Super luminosity
- **E ; ESD Protected (±2.0KV, 3 Times @100pF, 1.5KΩ)**

Application

- Traffic Signal
- Message Board

Outline Dimensions

unit : mm



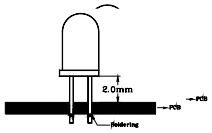
Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	120	mW
Forward current	I_F	40	mA
*[1]Peak forward current	I_{FP}	65	mA
Operating temperature range	T_{opr}	-30～85	℃
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



※ Recommend document

-. LED is very sensitive to ESD.

Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F= 20mA	-	3.2	3.8	V
*[4]Luminors intensity	I_V	I_F= 20mA	1170	-	3960	mcd
Dominant wavelength	λ_D	I_F= 20mA	457	465	472	nm
Spectrum bandwidth	$\Delta\lambda$	I_F= 20mA	-	17	-	nm
*[3]Half angle	$\theta^1/_2$	I_F= 20mA	-	±15	-	deg

*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

R	S	T
1170~1760	1760~2640	2640~3960

Characteristic Diagrams

Fig. 1 I_F - V_F

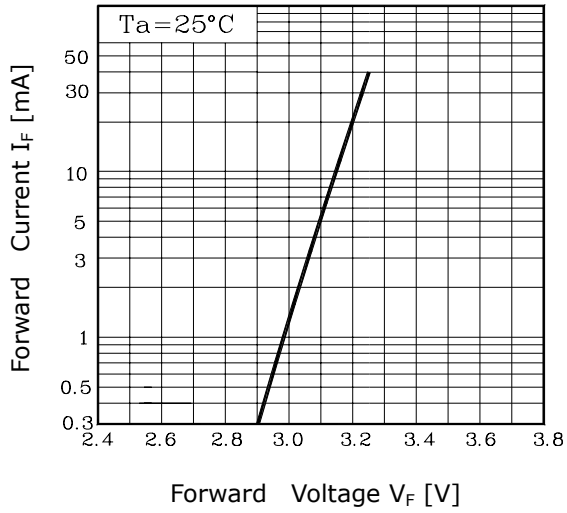


Fig. 2 I_V - I_F

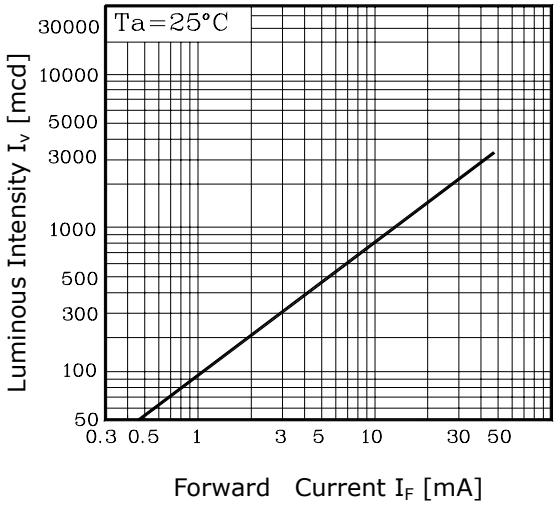


Fig. 3 I_F – Ta

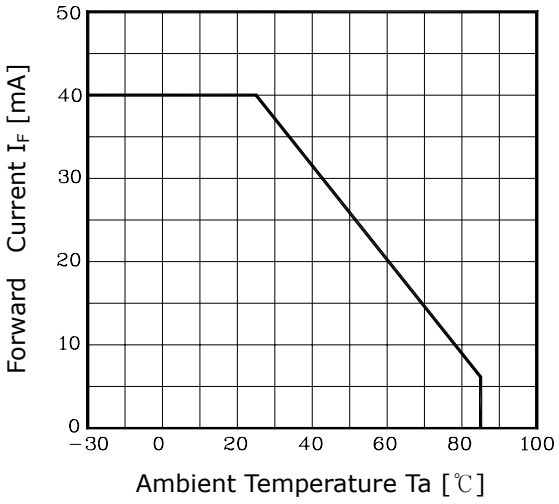


Fig.4 Spectrum Distribution

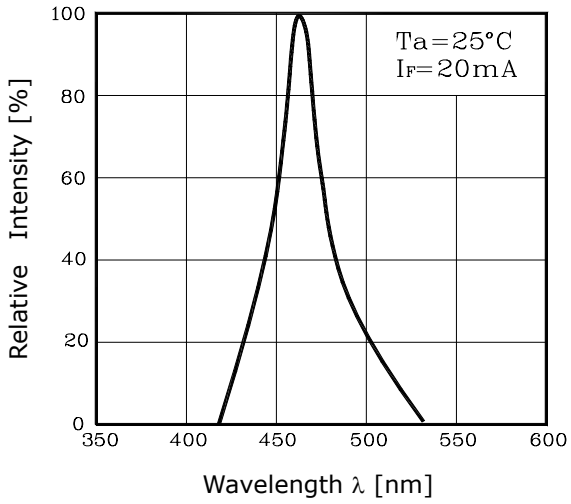
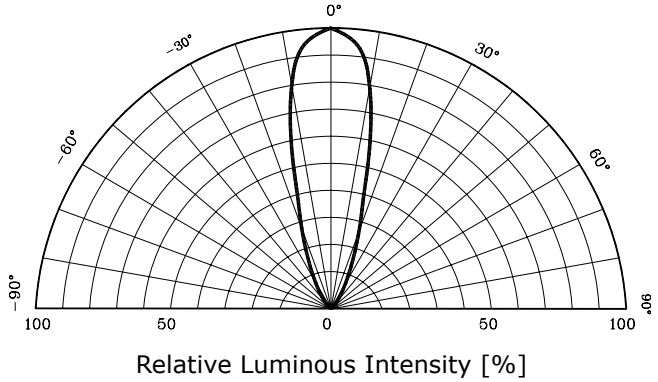


Fig. 5 Radiation Diagram



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