

Features

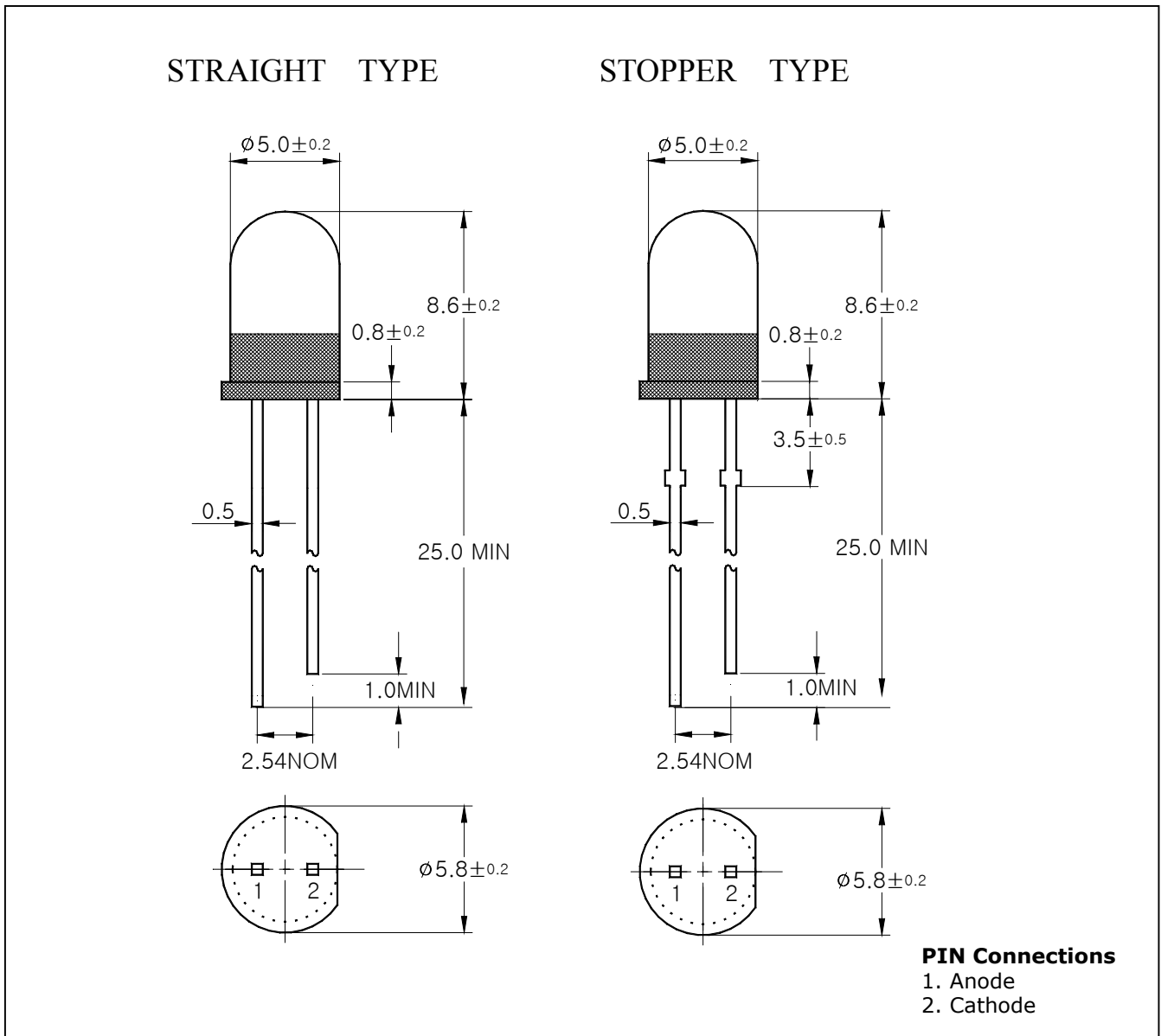
- Colorless transparency lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Super luminosity

Application

- Traffic Signal
- Massage Board

Outline Dimensions

unit : mm



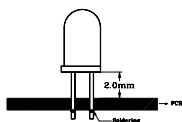
SHE123BGH / SHE123BGH-(B)

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	160	mW
Forward Current	I_F	40	mA
*1Peak Forward Current	I_{FP}	65	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-30 ~ 80	°C
Storage Temperature	T_{stg}	-30 ~ 100	°C
*2Soldering 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



- ※ Recommend document
- . LED is very sensitive to ESD.

Electrical Characteristics

$T_a=25^{\circ}\text{C}$

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	2.7	3.3	3.8	V
*4Luminous Intensity	I_V	$I_F=20\text{mA}$	1760	3960	8910	mcd
Peak Wavelength	λ_P	$I_F=20\text{mA}$	-	502	-	nm
Spectrum Bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	30	-	nm
Reverse Current	I_R	$V_R=4\text{V}$	-	-	10	uA
*3Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	± 15	-	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 $\pm 18\%$

*4. Luminous Intensity classification

S	T	U	V
1760~2640	2640~3960	3960~5940	5940~8910

Characteristic Diagrams

Fig. 1 $I_F - V_F$

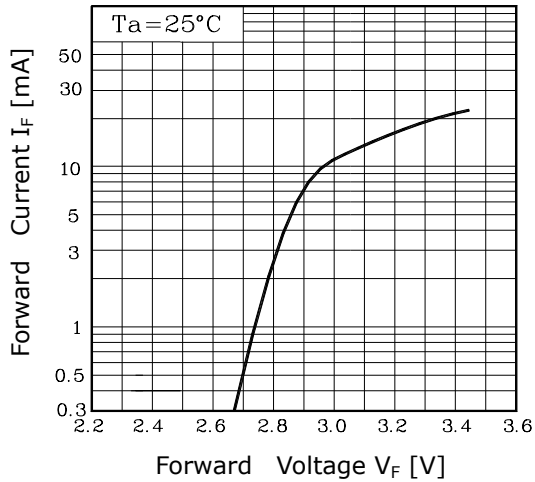


Fig. 2 $I_V - I_F$

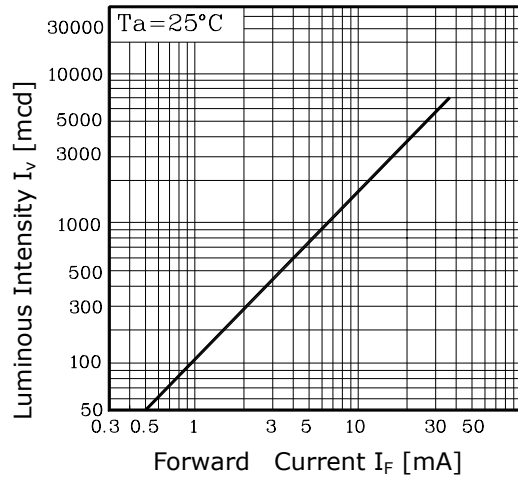


Fig. 3 $I_F - T_a$

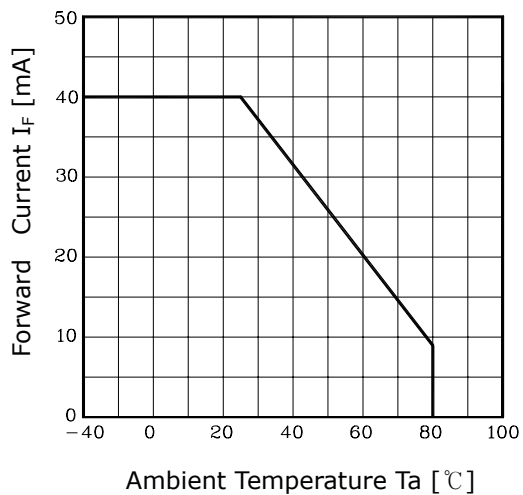


Fig. 4 Spectrum Distribution

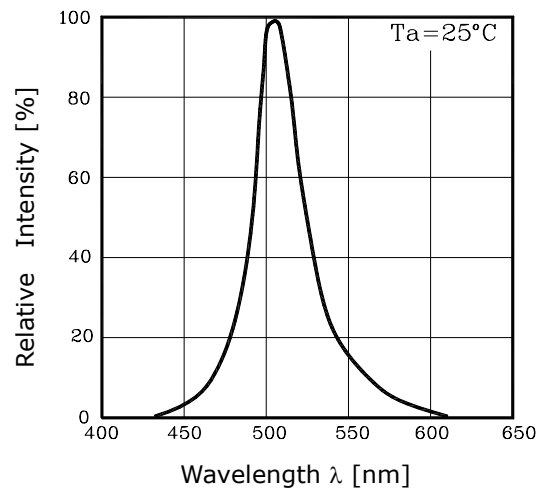
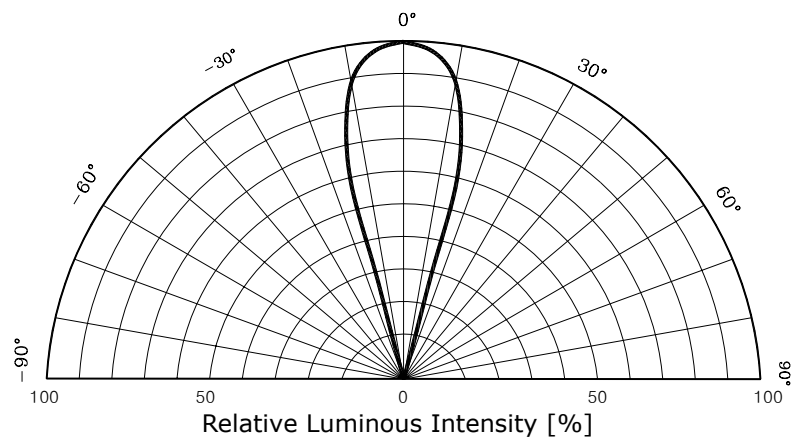


Fig. 5 Radiation Diagram



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