

**Features**

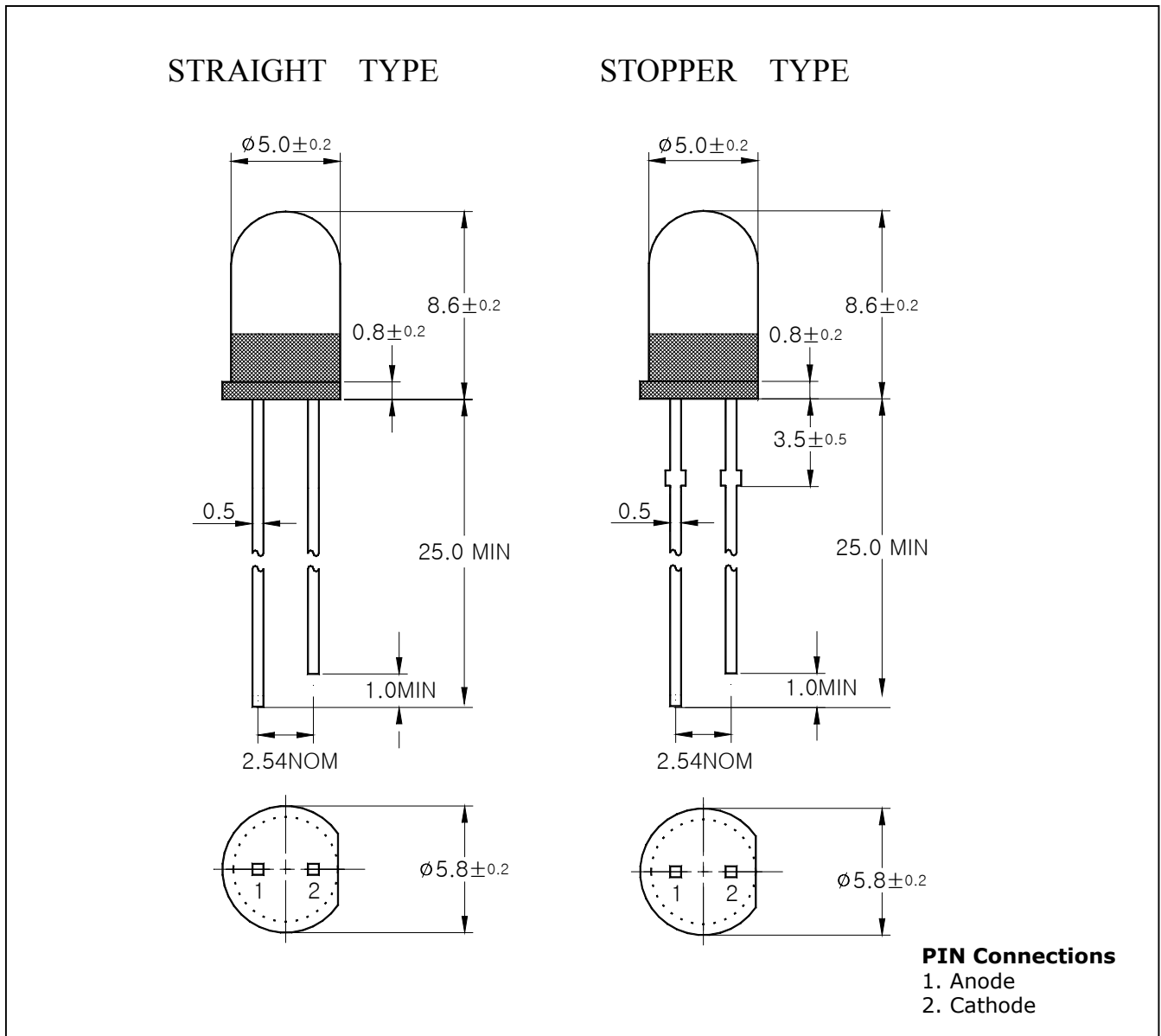
- Colorless transparency lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Super luminosity

**Application**

- Traffic Signal
- Massage Board

**Outline Dimensions**

**unit : mm**



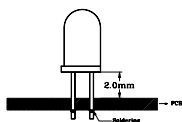
# SHE123BGH / SHE123BGH-(B)

## 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

Ta=25°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	$\lambda_P$	$I_F = 20\text{mA}$	-	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

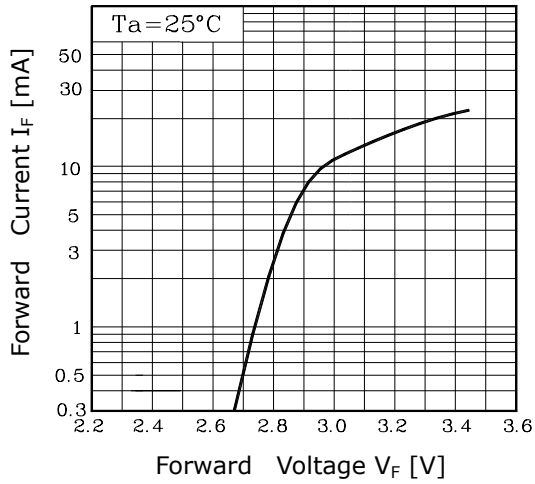
\*4. Luminous Intensity Maximum tolerance for each Grade Classification limit is ±18%

\*4. Luminous Intensity classification

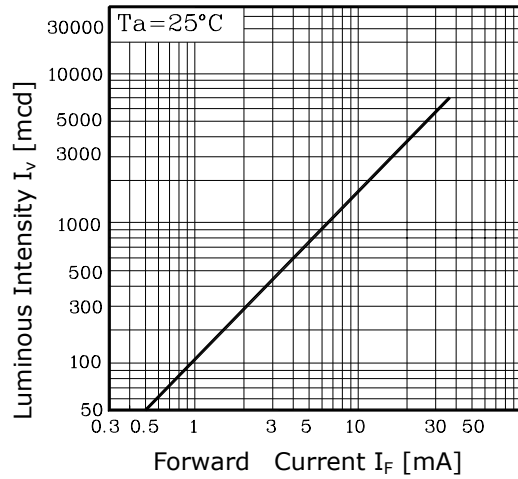
S	T	U	V
1760~2640	2640~3960	3960~5940	5940~8910

## Characteristic Diagrams

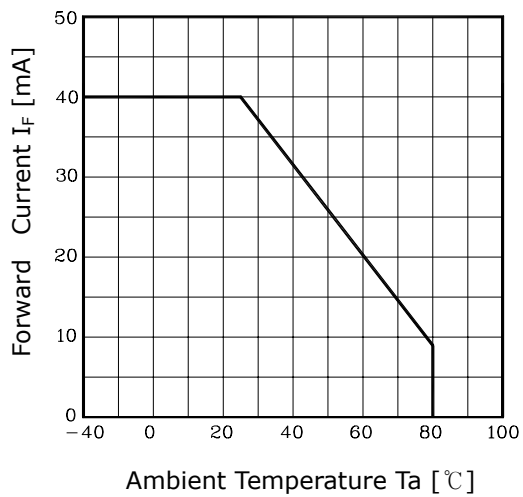
**Fig. 1  $I_F - V_F$**



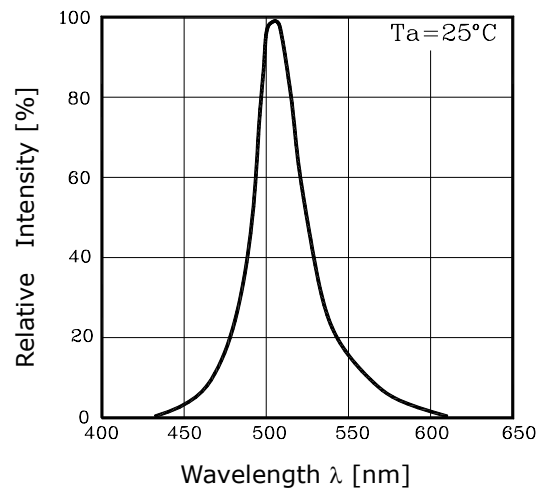
**Fig. 2  $I_V - I_F$**



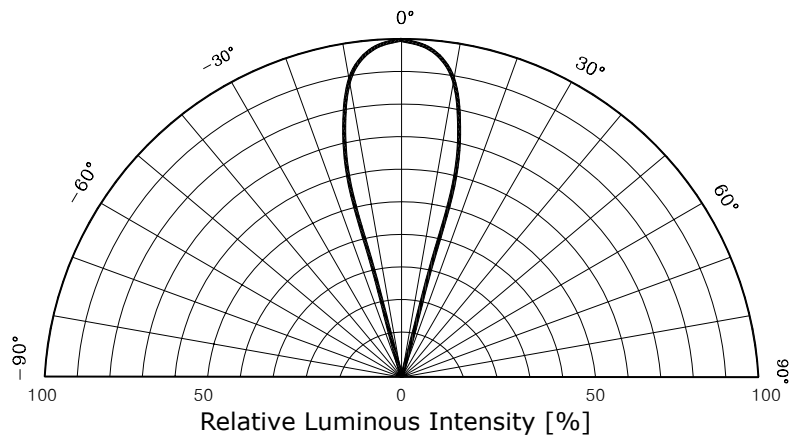
**Fig. 3  $I_F - T_a$**



**Fig. 4 Spectrum Distribution**



**Fig. 5 Radiation Diagram**



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