

Features

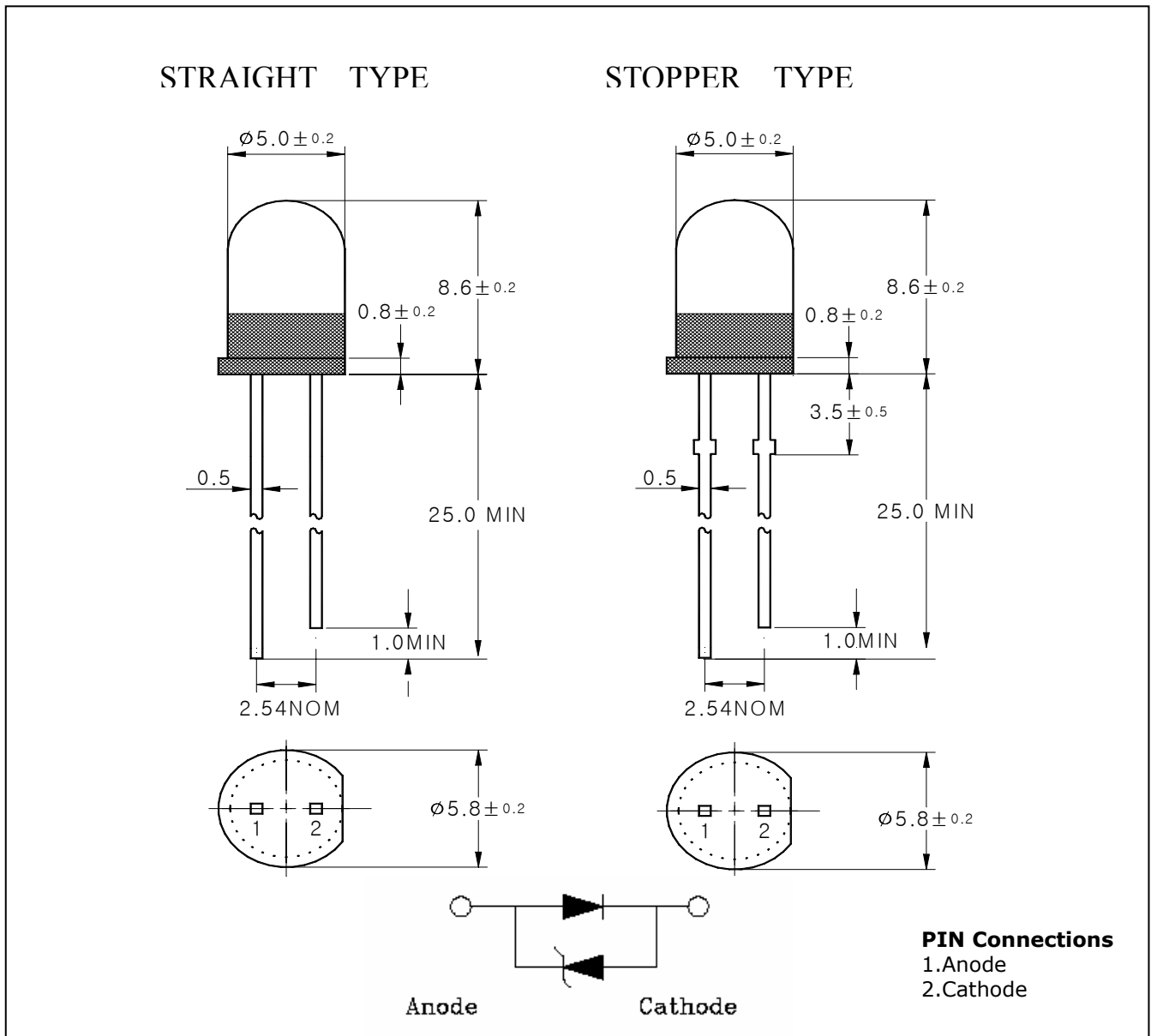
- Colorless transparency lens type
- $\phi 5\text{mm}$ (T-13/4) all plastic mold type
- Super luminosity
- **E ; ESD Protected ($\pm 2.0\text{KV}$, 3 Times @ 100pF , $1.5\text{K}\Omega$)**

Application

- Traffic Signal
- Massage Board

Outline Dimensions

unit : mm



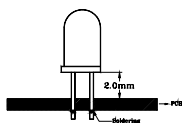
SHE123BGHE / SHE123BGHE-(B)

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	120	mW
Forward Current	I_F	40	mA
*1Peak Forward Current	I_{FP}	65	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25 ~ 85	°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



Electrical Characteristics

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

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	2.9	-	3.6	V
*4Luminors Intensity	I_V	$I_F = 20\text{mA}$	3400	-	8910	mcd
Dominant Wavelength	λ_D	$I_F = 20\text{mA}$	-	502	-	nm
Spectrum Bandwidth	$\Delta \lambda$	$I_F = 20\text{mA}$	-	30	-	nm
*3Half angle	$\theta^{1/2}$	$I_F = 20\text{mA}$	-	± 20	-	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

T2	U1	U2	V1	V2
3400~3960	3960~4900	4900~5940	5940~7400	7400~8910

Characteristic Diagrams

Fig. 1 $I_F - V_F$

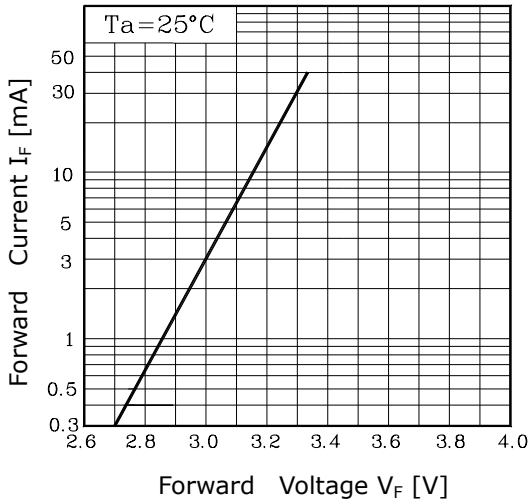


Fig. 2 $I_V - I_F$

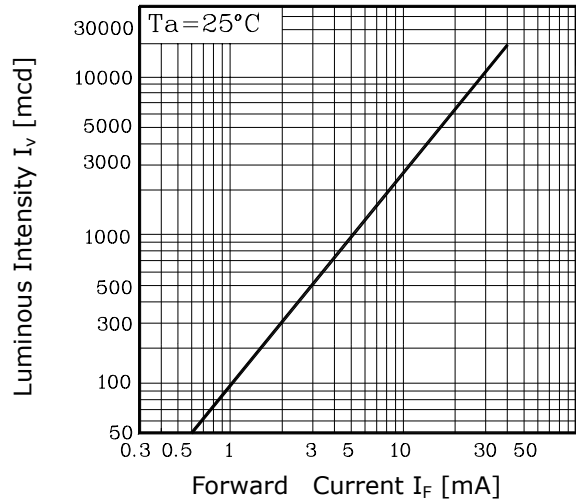


Fig. 3 $I_F - T_a$

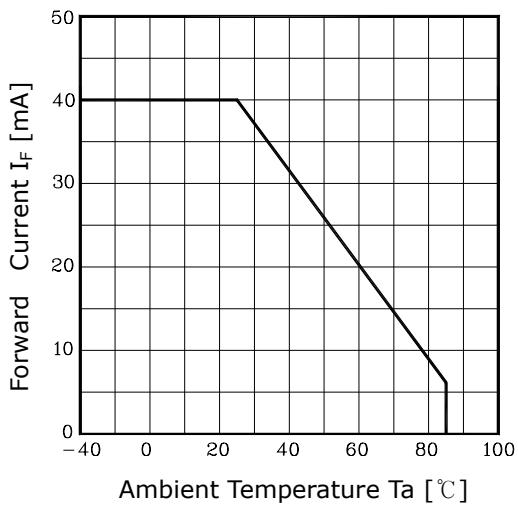


Fig. 4 Spectrum Distribution

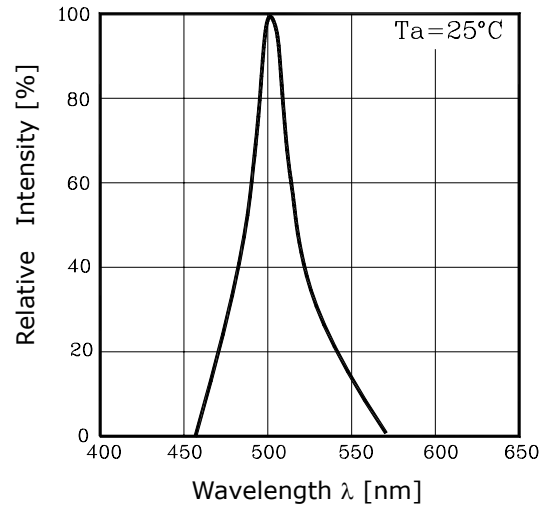
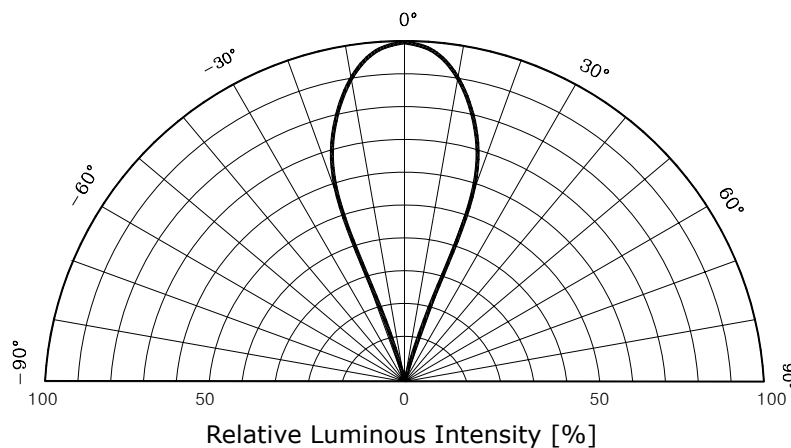


Fig. 5 Radiation Diagram



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