SPG5415E-H(B)

1. Features

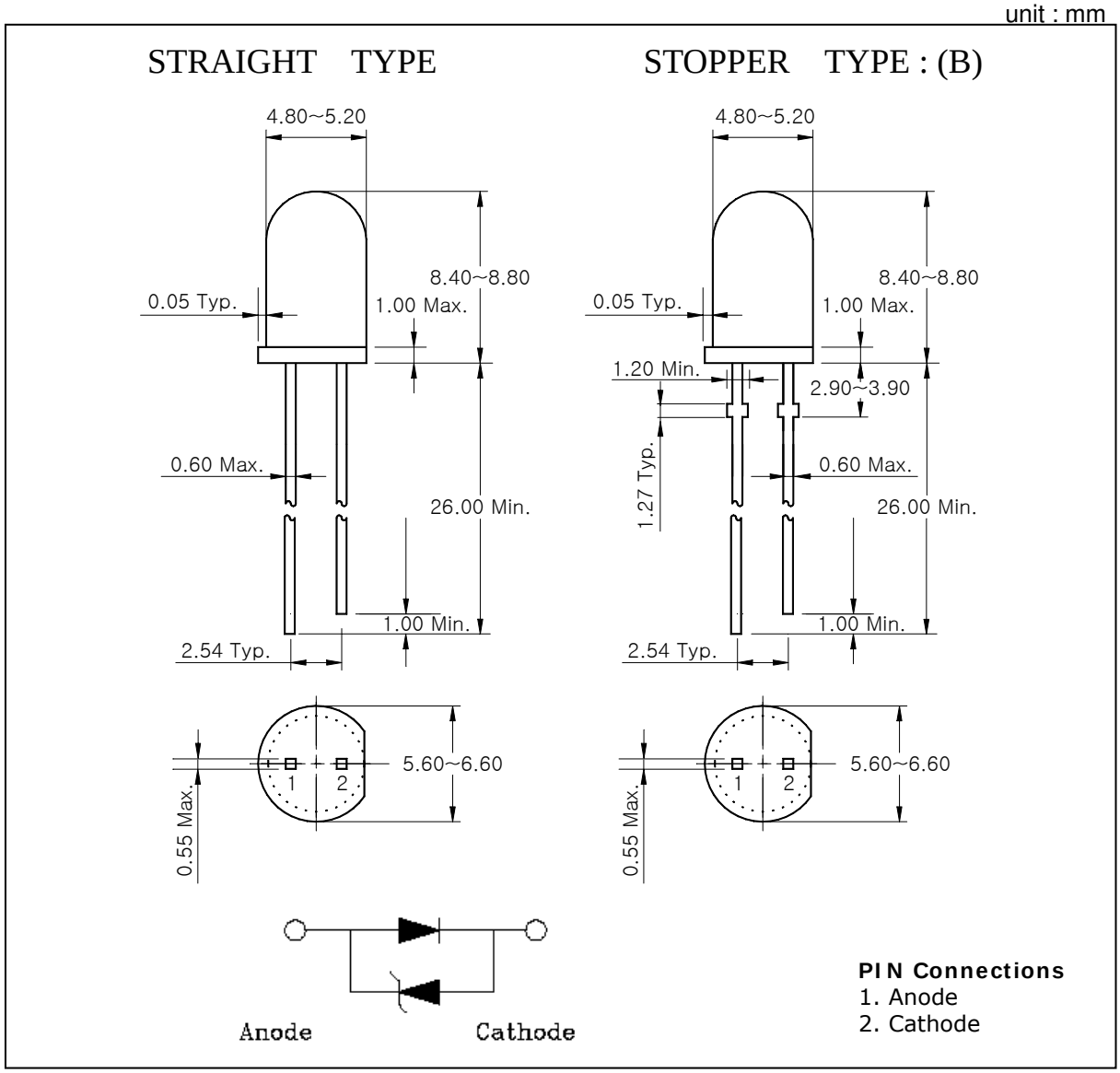
- Green Colored lens type
- ϕ5mm(T-13/4) all plastic mold type
- Viewing angles : 30 °
- Super luminosity
- **E ; ESD Protected (±2.0KV, 3 Times @100pF, 1.5KΩ)**

2. Application

- Electronic signs
- Indoor/ Outdoor displays
- Backlighting

3. Outline Dimensions

unit : mm



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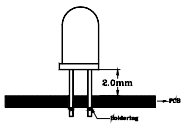
When using this product, would you please refer to the latest specifications.

4. Absolute Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	114	mW
Forward current	I_F	30	mA
*[1]Peak forward current	I_{FP}	50	mA
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



※ Recommend document

-. LED is very sensitive to ESD.

5. 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]Luminous intensity	I_V	I_F= 20mA	2640	-	13400	mcd
Dominant wavelength	λ_D	I_F= 20mA	515	523	530	nm
Spectrum bandwidth	$\Delta\lambda$	I_F= 20mA	-	30	-	nm
*[3]Half angle	$\theta 1/2$	I_F= 20mA	-	±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

Test Condition @I_F = 20mA	
Luminous Intensity [mcd]	Dominant Wavelength [nm]
T = 2640 ~ 3960	a+ = 515 ~ 519
U = 3960 ~ 5940	a = 519 ~ 525
V = 5940 ~ 8910	b = 525 ~ 530
W = 8910 ~ 13400	

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6. Characteristic Diagrams

Fig. 1 I_F - V_F

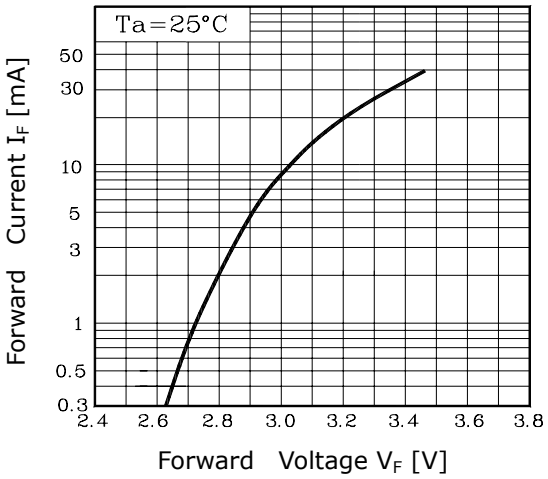


Fig. 2 I_V - I_F

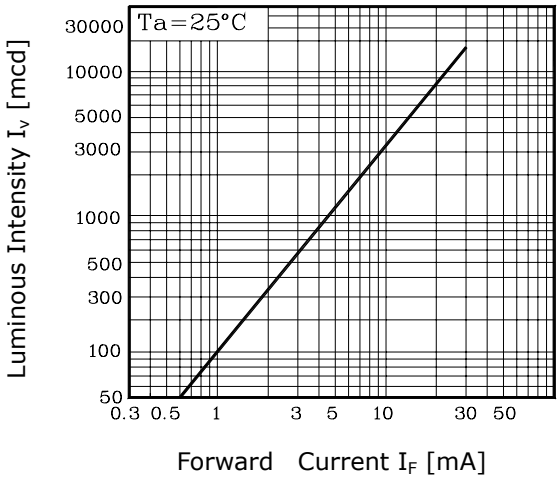


Fig. 3 I_F – Ta

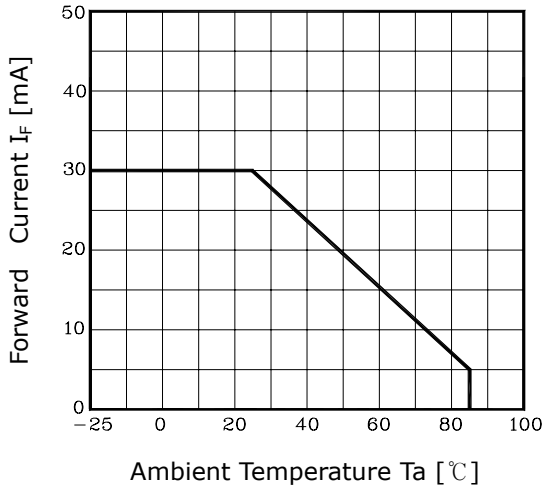


Fig.4 Spectrum Distribution

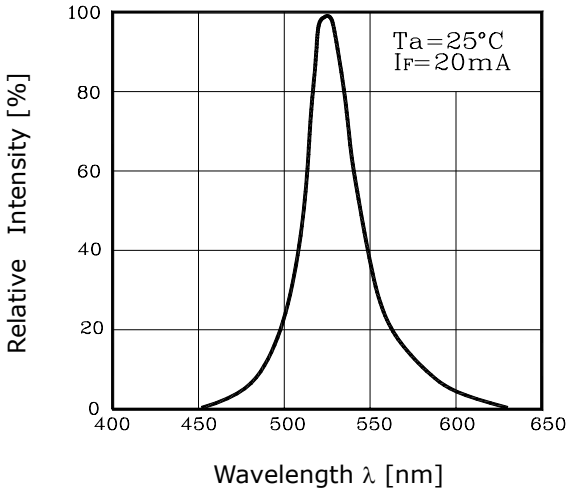
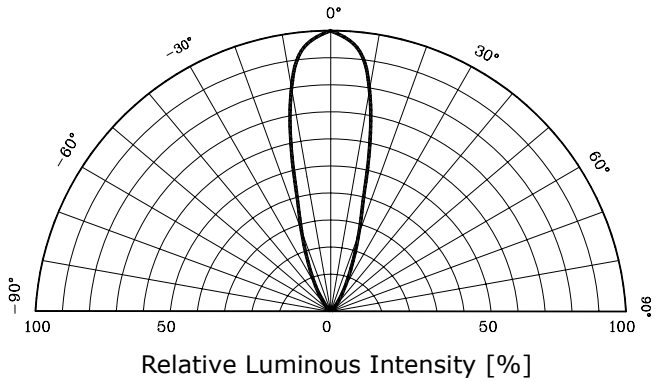


Fig. 5 Radiation Diagram



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