

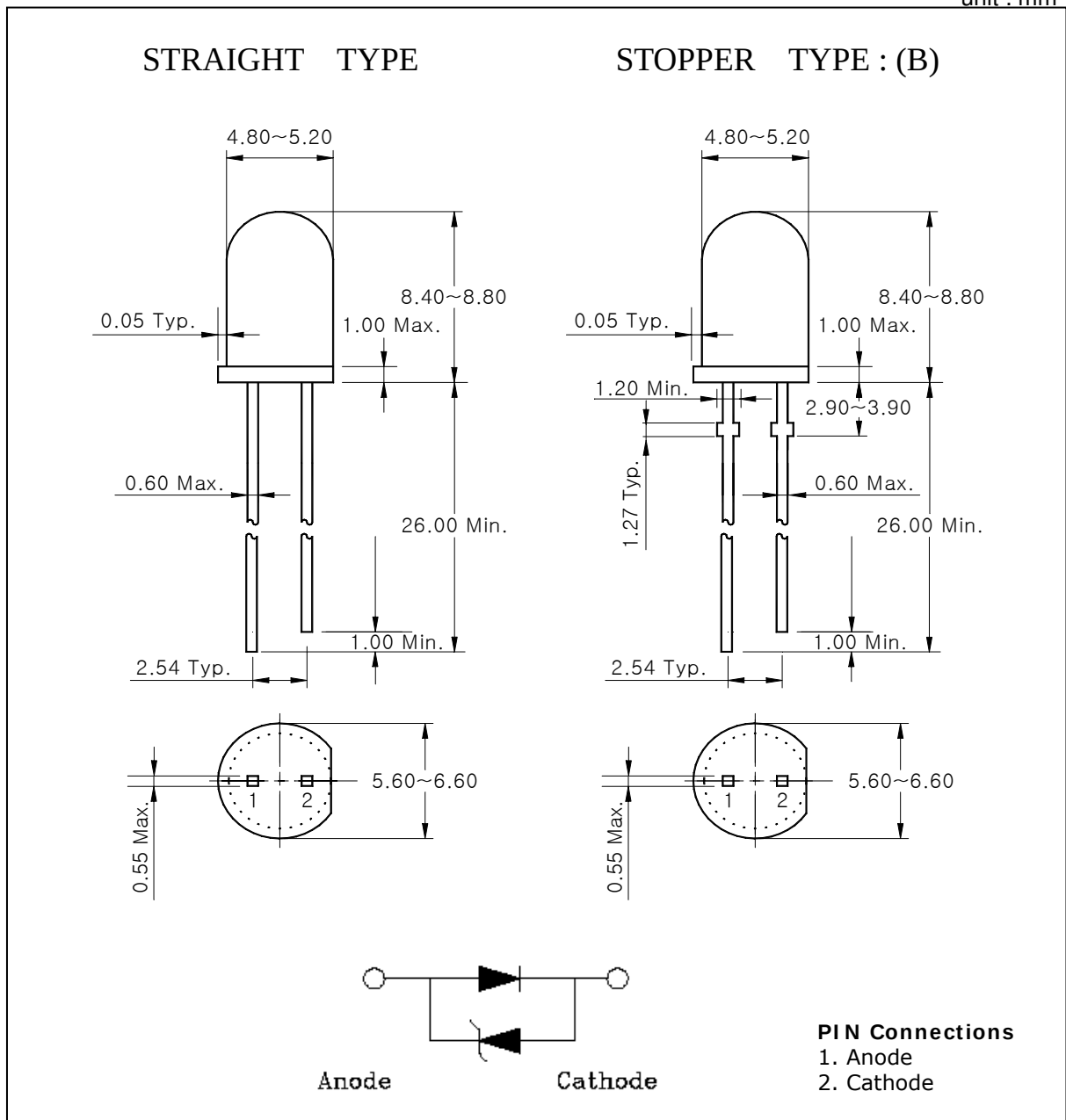
SB5315E-G / SB5315E-G(B)

1. Features

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

2. Outline Dimensions

unit : mm



The contents of this data sheet are subject to change without advance notice for the purpose of improvement.
When using this product, would you please refer to the latest specifications.

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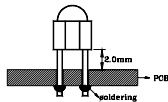
3. Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P_D	110	mW
Forward current	I_F	30	mA
*1Peak forward current	I_{FP}	50	mA
Operating temperature range	T_{opr}	-30~85	°C
Storage temperature range	T_{stg}	-30~100	°C
*2Soldering temperature	T_{sol}	260°C 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.

4. Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20\text{mA}$	-	3.1	3.55	V
Luminous intensity	I_V	$I_F = 20\text{mA}$	1760	-	5940	mcd
Dominant wavelength	λ_D	$I_F = 20\text{mA}$	465	-	475	nm
Spectrum bandwidth	$\Delta\lambda$	$I_F = 20\text{mA}$	-	17	-	nm
*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

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5. Characteristic Diagrams

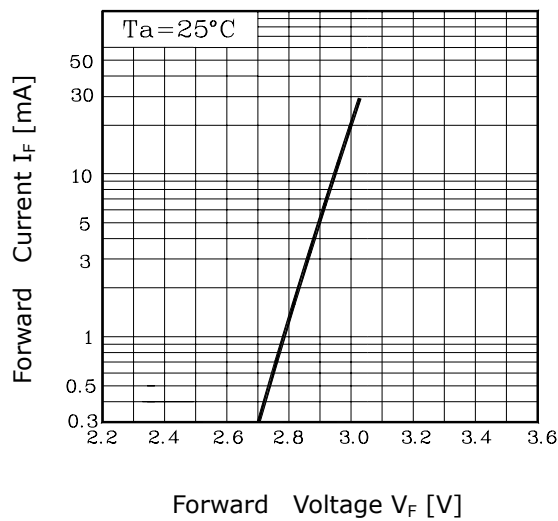
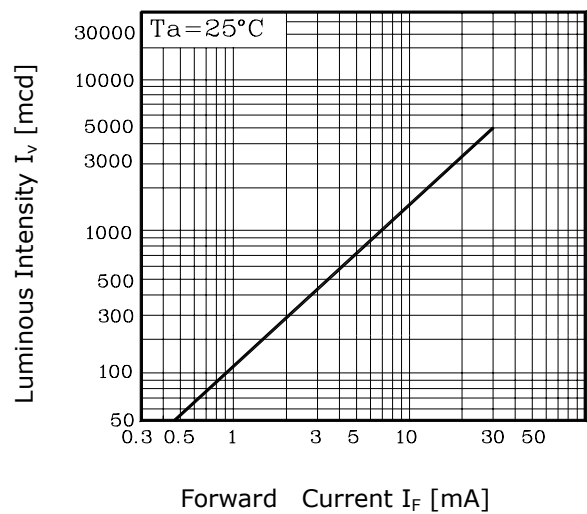
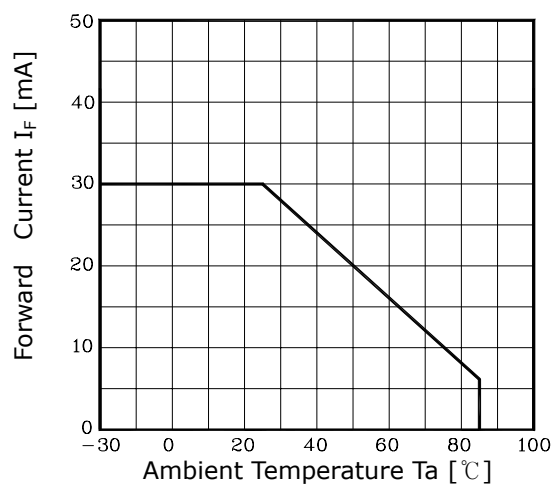
Fig. 1 $I_F - V_F$ Fig. 2 $I_V - I_F$ Fig. 3 $I_F - T_a$ 

Fig. 4 Spectrum Distribution

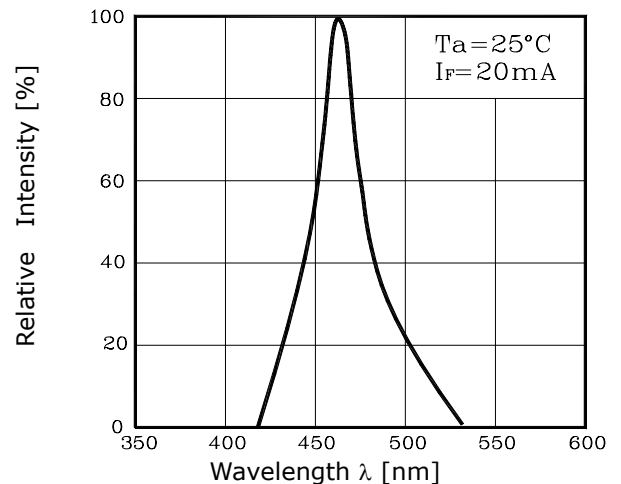
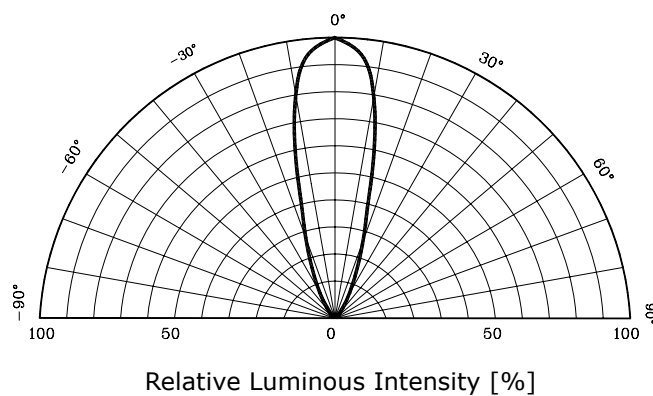


Fig. 5 Radiation Diagram



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