



SG5311 / SG5311(B)

LED Lamp

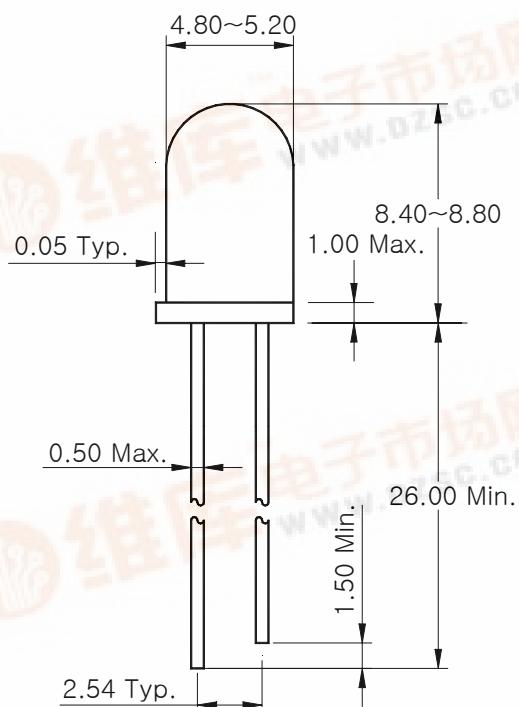
Features

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

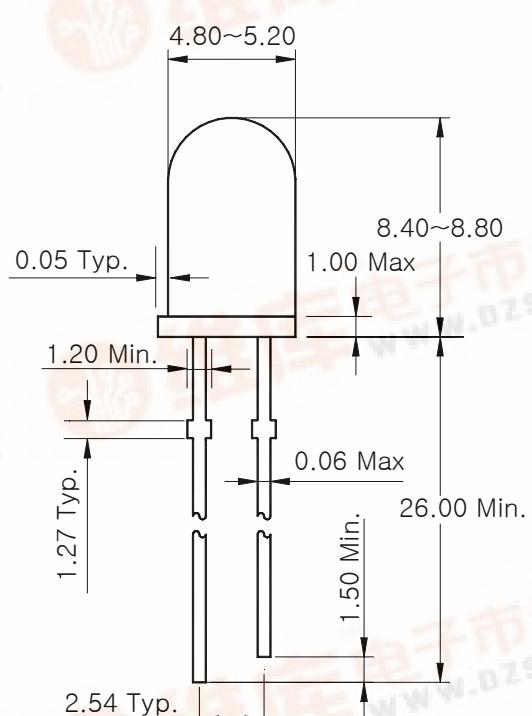
Outline Dimensions

unit : mm

STRAIGHT TYPE



STOPPER TYPE : (B)



PIN Connections
1. Anode
2. Cathode

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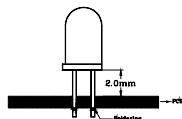
Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Power dissipation	P _D	75	mW
Forward current	I _F	30	mA
* ¹ Peak forward current	I _{FP}	50	mA
Reverse voltage	V _R	4	V
Operating temperature range	T _{opr}	-25~85	°C
Storage temperature range	T _{stg}	-30~100	°C
* ² Soldering 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



Electrical / Optical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F = 20mA	-	2.2	2.5	V
Luminous intensity	I _V	I _F = 20mA	27	-	155	mcd
Peak wavelength	λ _P	I _F = 20mA	-	557	-	nm
Spectrum bandwidth	Δλ	I _F = 20mA	-	25	-	nm
Reverse current	I _R	V _R =4V	10	-	-	uA
* ³ Half angle	θ1/2	I _F = 20mA	-	±11	-	deg

*3. θ1/2 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

I	J	K	L
27 ~ 43	43 ~ 68	68 ~ 100	100 ~ 155

Characteristic Diagrams

Fig. 1 I_F - V_F

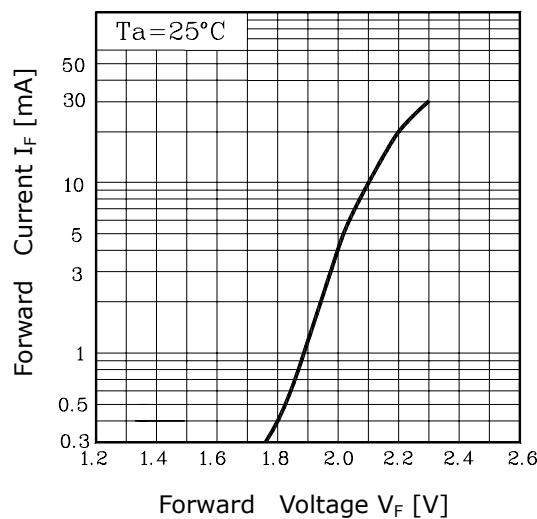


Fig. 2 I_V - I_F

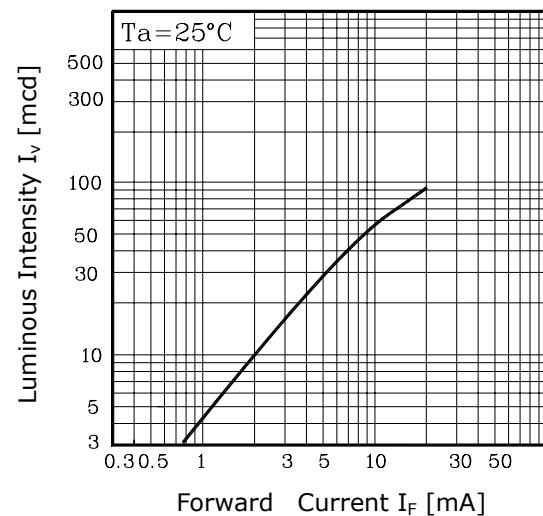


Fig. 3 I_F - T_a

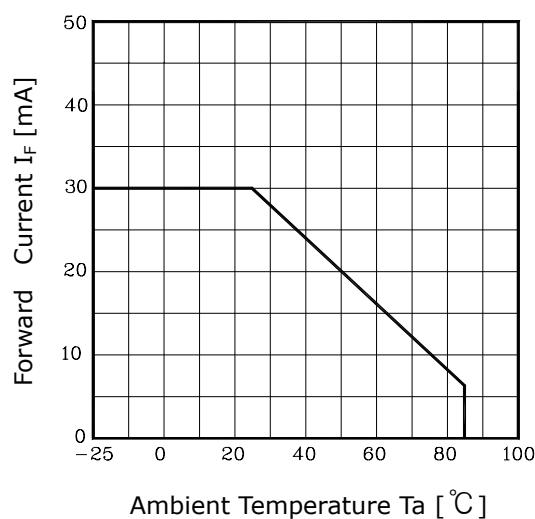


Fig. 4 Spectrum Distribution

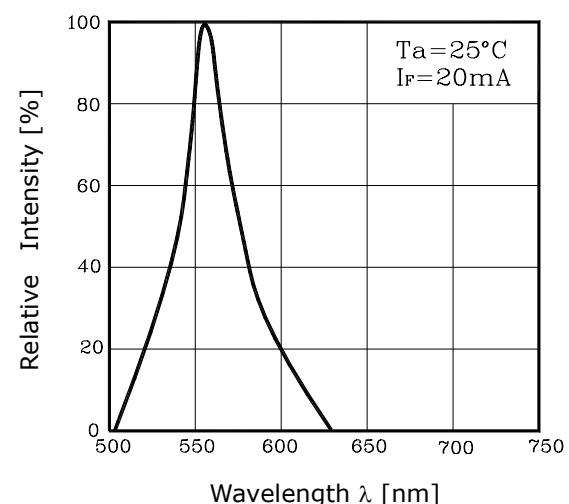
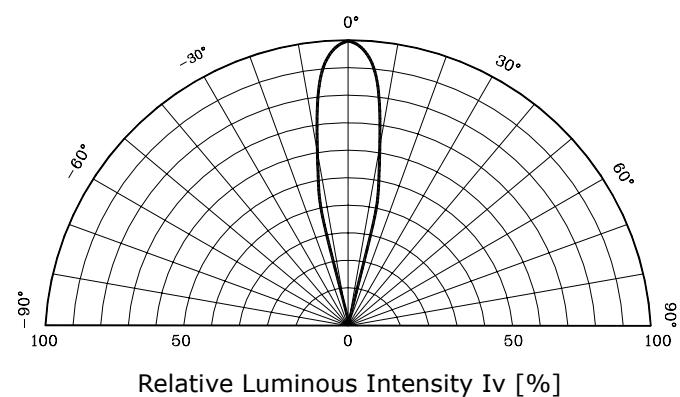


Fig. 5 Radiation Diagram



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