

SA5315-F

unit : mm

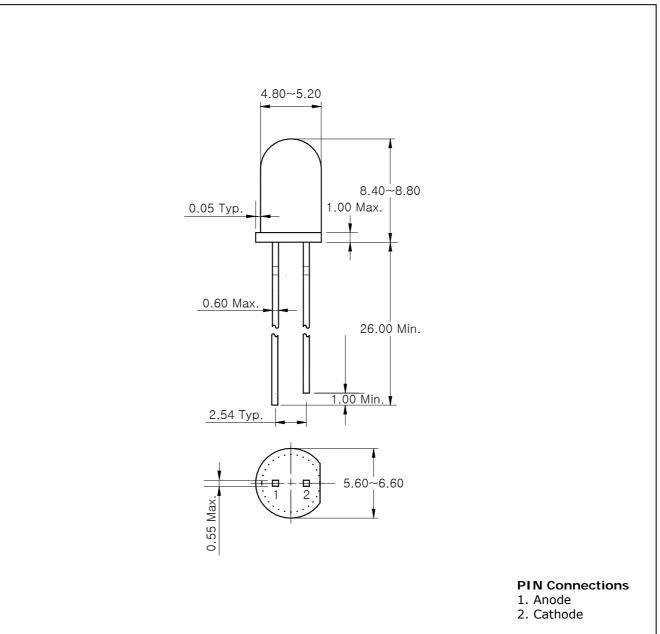
Features

- Colorless transparency lens type
- ϕ 5mm(T-13/4) all plastic mold type
- Super luminosity

Application

- Traffic Signal
- Massage Board

Outline Dimensions

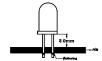


Absolute Maximum Ratings

Absolute Maximum Ratings		(Ta=25°		
Characteristic	Symbol	Rating	Unit	
Power dissipation	P _D	70	mW	
Forward current	I _F	30	mA	
* ¹ Peak forward current	I_{FP}	65	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℃ 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℃) Characteristic **Symbol Test Condition** Min. Max. Unit Тур. Forward voltage V_{F} $I_F = 20 \text{mA}$ 1.9 -2.4 V *⁴Luminous intensity I_V $I_F = 20 \text{mA}$ 3400 -8910 mcd $I_F = 20 \text{mA}$ 625 Peak wavelength 615 620 λ_{D} nm Spectrum bandwidth $I_F = 20 \text{mA}$ Δ_{λ} _ 30 _ nm Reverse current $V_R = 4V$ _ 10 uA \mathbf{I}_{R} _ *³Half angle $\theta 1/2$ $I_F = 20 \text{mA}$ - ± 15 _ deg

*3. θ 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%

• V_F / I_V / λ_D Grade Classification (Ta=25 °C)

Test Condition $@I_F = 20mA$			
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant Wavelength [nm]	
1 : 1.9~2.0	T ₂ : 3400~3960		
2:2.0~2.1	U ₁ : 3960~4900	a : 615~620 b : 620~625	
3 : 2.1~2.2	U ₂ : 4900~5940		
4 : 2.2~2.3	V ₁ : 5940~7400		
5 : 2.3~2.4	V ₂ : 7400~8910		

(Do not use to combine grade classification. It must be used separately grade classification)

Characteristic Diagrams

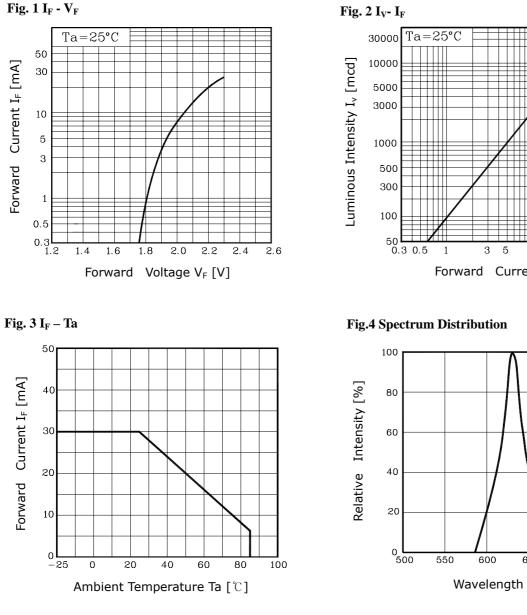
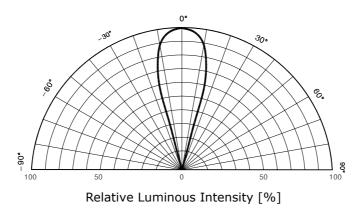
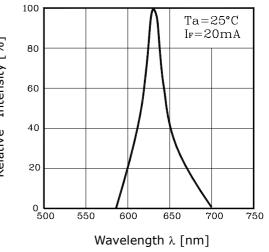


Fig. 5 Radiation Diagram



KSD-02S007-000

10 30 50 Forward Current I_F [mA]



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