

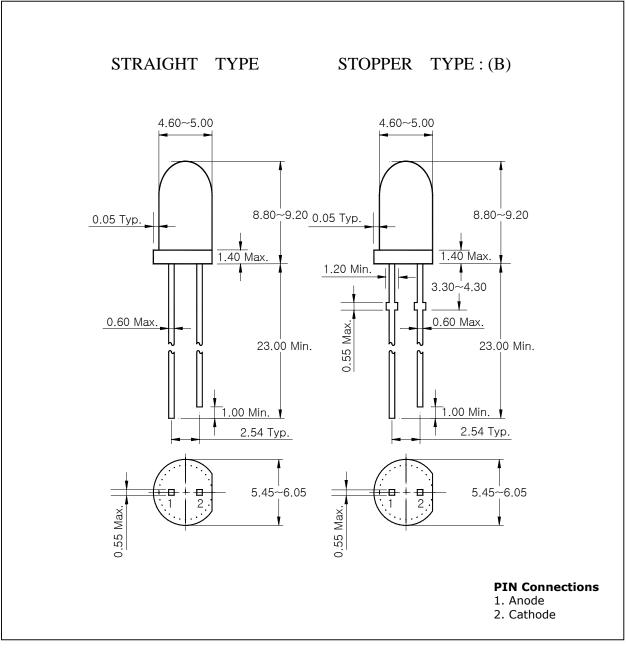
LED Lamp

unit : mm

Features

- Colorless transparency lens type
- ϕ 5mm(T-13/4) all plastic mold type
- ESD Protected (±2.0KV, 3 Times @100pF, 1.5KΩ)

Outline Dimensions



Absolute Maximum Ratings

Absolute Maximum Ratings	5	(Ta=25℃)		
Characteristic	Symbol	Rating	Unit	
Power dissipation	P _D	85	mW	
Forward current	I _F	20	mA	
* ¹ Peak forward current	\mathbf{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℃ 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.

Electrical / Optical Characteristics

Electrical / Optical Characteristics					(Ta=25℃)		
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Forward voltage	V _F	I _F = 20mA	-	3.5	4.2	V	
* ⁴ Luminous intensity	Iv	I _F = 20mA	350	-	1760	mcd	
Peak wavelength	λ _P	I _F = 20mA	-	435	-	nm	
Spectrum bandwidth	Δ_{λ}	I _F = 20mA	-	60	-	nm	
Reverse current	I _R	V _R =4V	-	-	10	uA	
* ³ Half angle	θ1/2	I _F = 20mA	-	±8	-	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%

*4. Luminous Intensity Classification

0	Р	Q	R
350~520	520~780	780~1170	1170~1760

Characteristic Diagrams

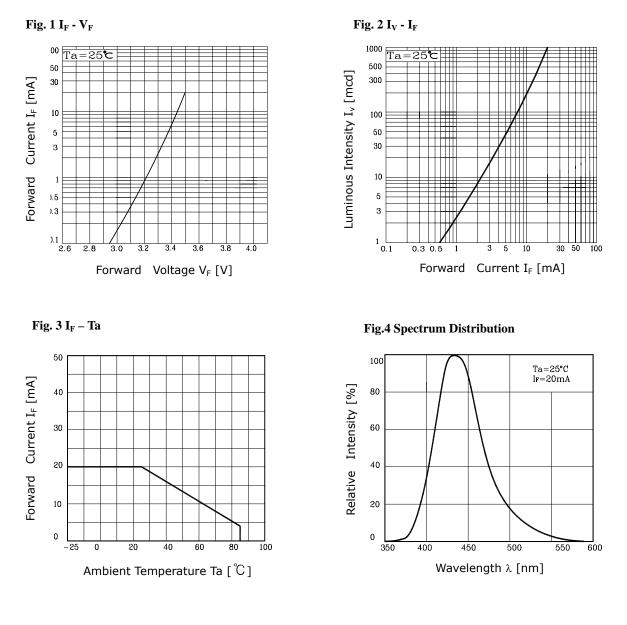
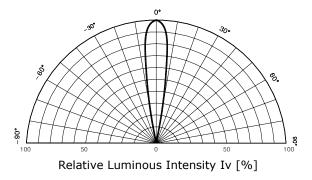


Fig. 5 Radiation Diagram



KSD-O2P005-000

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