

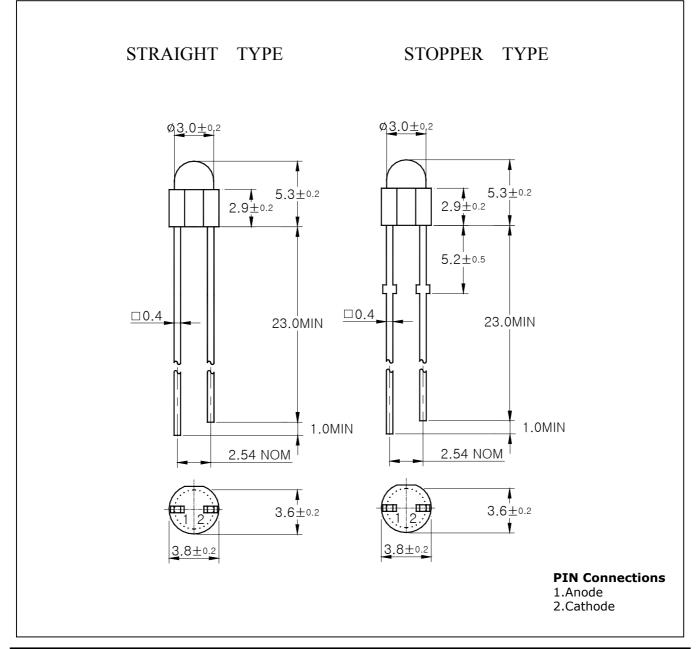
High Brightness LED Lamp

Features

- Colorless transparency lens type
- ϕ 3mm(T-1) all plastic mold type
- Super luminosity

Outline Dimensions

unit : mm



Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P _D	85	mW
Forward Current	I _F	20	mA
* ¹ Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V _R	4	V
Operating Temperature	T _{opr}	-25~85	Ĵ
Storage Temperature	T _{stg}	-30~100	Ĵ
Soldering Temperature	T _{sol}	250℃ for 3 seconds	

*1.Duty ratio = 1/16, Pulse width = 0.1ms

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	I _F = 20mA	-	3.4	3.8	V
* ² Luminous Intensity	Iv	I _F = 20mA	155	230	520	mcd
*3Dominant Wavelength	λ_{D}	I _F = 20mA	-	465	-	nm
Spectrum Bandwidth	Δ_{λ}	I _F = 20mA	-	26	-	nm
Reverse Current	_R	V _R =4V	-	-	10	uA
* ⁴ Half angle	θ1/2	I _F = 20mA	-	±45	-	deg

*2. Luminous Intensity Maximum tolerance for each Grade Classification limit is $\pm 18\%$

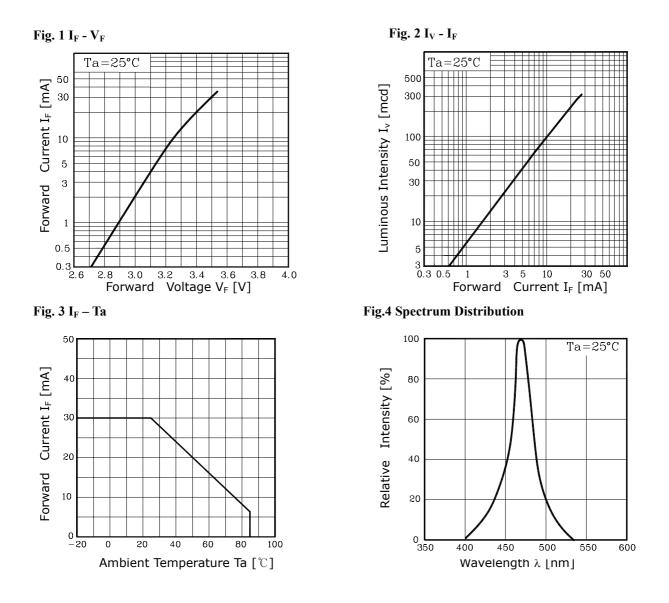
*3. Dominant Wavelength Maximum tolerance for each Grade Classification limit is ± 1 nm

*4. θ 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

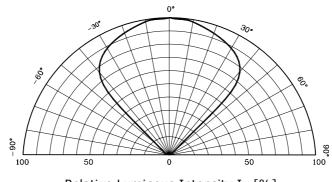
• VF / IV / λ_P Grade Classification

Test Condition @IF = 20mA					
Forward Voltage [V]	Luminous Intensity [mcd]	Dominant eavelength [nm]			
1 = 2.9 ~ 3.2	M = 155 ~ 230	a = 460 ~ 465			
2 = 3.2 ~ 3.5	N = 230 ~ 350				
3 = 3.5 ~ 3.8	O = 350 ~ 520	b = 466 ~ 470			

Characteristic Diagrams







Relative Luminous Intensity Iv [%]

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