

High Brightness LED Lamp

Features

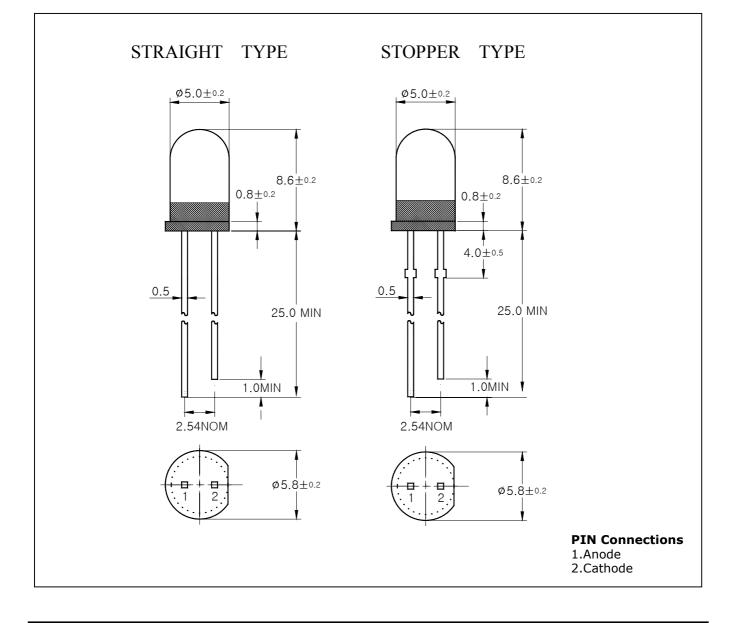
- Colorless transparency lens type
- ϕ 5mm(T-13/4) all plastic mold type
- Super luminosity

Application

- Traffic Signal
- Massage Board

Outline Dimensions

unit : mm



Absolute maximum ratings

Characteristic	Symbol	RatingsU		
Power Dissipation	P _D	120	mW	
Forward Current	I _F	40	mA	
* ¹ Peak Forward Current	I_{FP}	65	mA	
Reverse Voltage	V _R	4	V	
Operating Temperature	T _{opr}	-25~85	C	
Storage Temperature	T _{stg}	-30~100	C	
* ² Soldering Temperature	T _{sol}	260°C for 5 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 Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	$I_F = 20 \text{mA}$	1.8	2.25	2.7	V
* ⁴ Luminors Intensity	\mathbf{I}_{V}	$I_F = 20 \text{mA}$	1760	3600	5940	mcd
Peak Wavelength	$\lambda_{ m P}$	$I_F = 20 \text{mA}$	-	592	-	nm
Spectrum Bandwidth	Δ_{λ}	$I_F = 20 \text{mA}$	-	30	-	nm
Reverse Current	_R	V _R =4V	-	-	10	uA
* ³ Half angle	$\theta^1/_2$	$I_F = 20 \text{mA}$	-	±11	-	deg

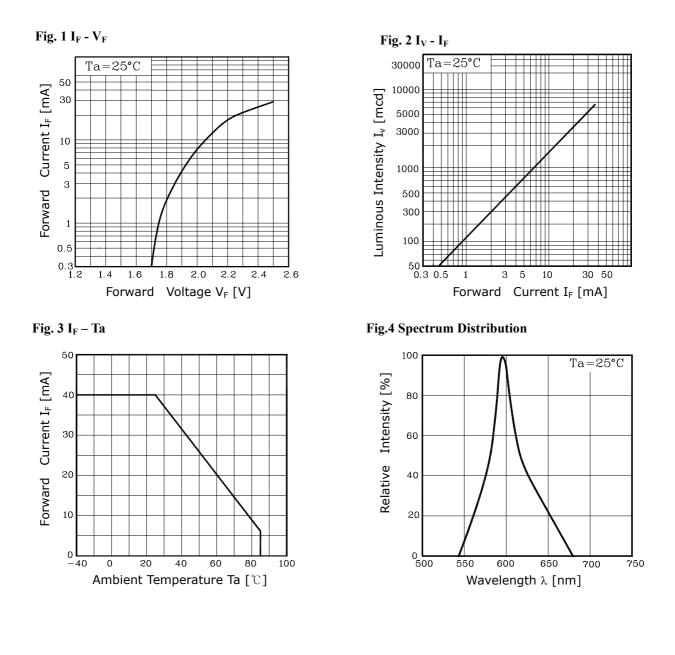
*3. θ 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

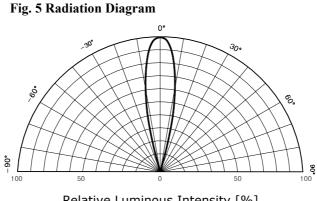
*4. Luminous Intensity Maximum tolerance for each Grade Classification limit is $\pm 18\%$

*4. Luminous Intensity classification

S	Т	U
1760~2640	2640~3960	3960~5940

Characteristic Diagrams





Relative Luminous Intensity [%]

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