

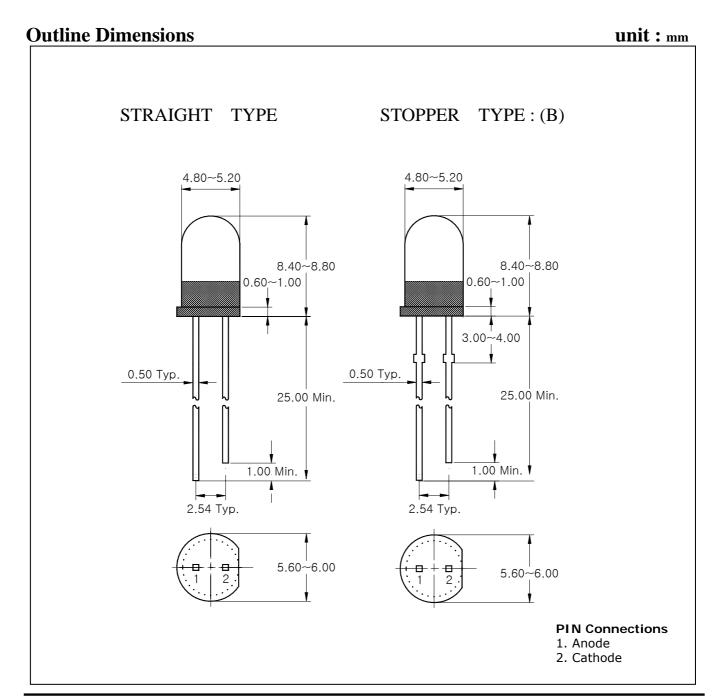
High Efficiency LED Lamp

Features

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

Application

- Traffic Signal
- Message Board



KSD-O3B008-000

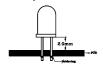
Absolute Maximum Ratings

 $(Ta=25^{\circ}C)$

Characteristic	Symbol	Rating	Unit
Power dissipation	P_{D}	105	mW
Forward current	I_{F}	40	mA
*¹Peak forward current	${ m I}_{\sf FP}$	65	mA
Reverse voltage	V_R	4	V
Operating temperature range	T_{opr}	-25~85	$^{\circ}$
Storage temperature range	T_{stg}	-30~100	$^{\circ}$
*2Soldering temperature	T _{sol}	260 $^{\circ}$ 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}	$I_F = 20mA$	-	2.1	2.6	V
* ⁴ Luminors intensity	I_{V}	$I_F = 20 \text{mA}$	3400	ı	7400	mcd
Dominant wavelength	λ_{D}	$I_F = 20mA$	586	591	597	nm
Spectrum bandwidth	Δ_{λ}	$I_F = 20mA$	-	30	-	nm
Reverse current	I_{R}	$V_R=4V$	-	ı	10	uA
* ³ Half angle	$\theta^1/_2$	$I_F = 20mA$	-	±15	-	deg

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

^{*4.} Luminous Intensity Classification

T ₂	U_1	U ₂	V_1
3400~3960	3960~4900	4900~5940	5940~7400

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^{*4.} Luminous intensity maximum tolerance for each grade classification limit is ±18%

Characteristic Diagrams

Forward Voltage V_F [V]

Fig. 2 I_V - I_F

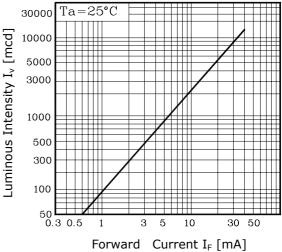


Fig. 3 I_F – Ta

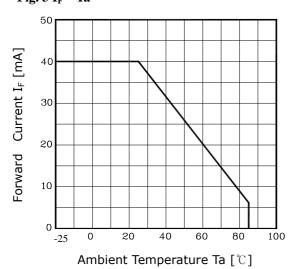


Fig.4 Spectrum Distribution

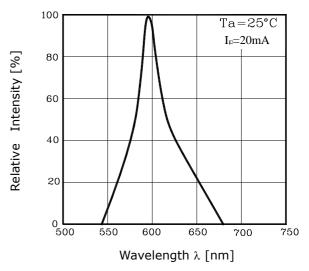
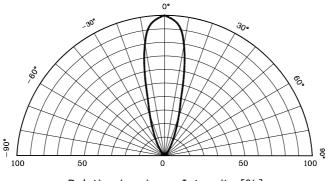


Fig. 5 Radiation Diagram



Relative Luminous Intensity [%]

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