

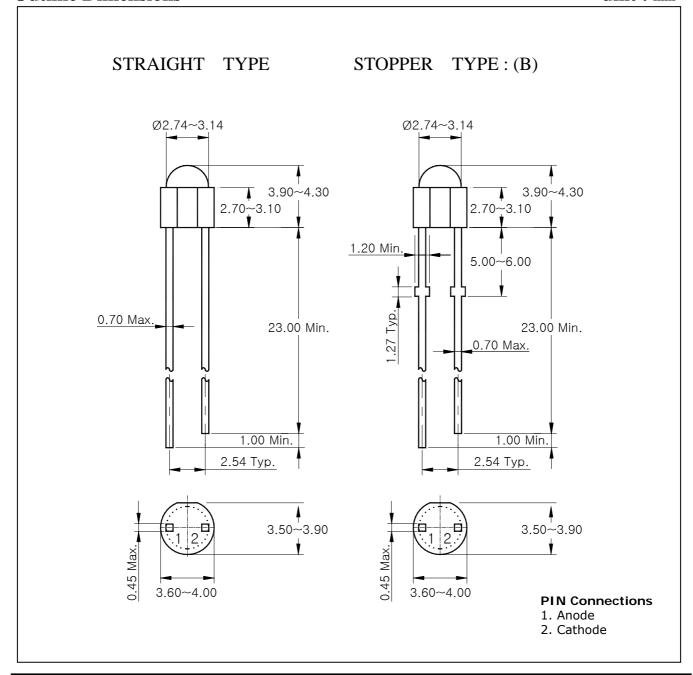
SY3418-E / SY3418-E(B)

High Brightness LED Lamp

Features

- Yellow colored transparency lens type
- \$\phi 3mm(T-1) all plastic mold type
- Wide viewing angle
- Low power consumption

Outline Dimensions unit: mm



KSD-O2C013-000

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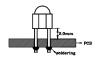
Absolute Maximum Ratings

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

Characteristic	Symbol	Rating	Unit
Power dissipation	P_{D}	75	mW
Forward current	I_{F}	30	mA
*¹Peak forward current	${ m I}_{\sf FP}$	50	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°C 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

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

Chamastanistia	Cruss b ol	Test Condition	N/:	Т	Mari	T T24
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_{F}	$I_F = 20mA$	-	2.1	2.5	V
* ³ Luminous intensity	I_{V}	$I_F = 20mA$	155	-	520	mcd
* ⁴ LDomonant wavelength	λ_{D}	$I_F = 20 \text{mA}$	587	593	600	nm
Spectrum bandwidth	Δ_{λ}	$I_F = 20 \text{mA}$	-	30	-	nm
Reverse current	I_{R}	$V_R=4V$	-	-	10	uA
* ⁵ Half angle	θ1/2	$I_F = 20 \text{mA}$	-	±45	-	deg

^{*3}. Luminous intensity maximum tolerance for each grade classification limit is $\pm 18\%$

^{*4.} Luminous Intensity Classification

М	N	0
155 ~ 230	230 ~ 350	350 ~ 520

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^{*4.} Dominant wavelength maximum tolerance for each grade classification limit is ±2nm

^{*5.} θ 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

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Characteristic Diagrams

Fig. 1 I_F - V_F

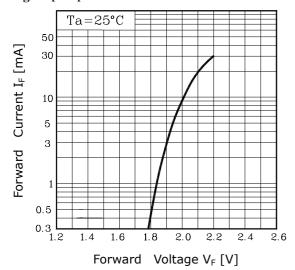


Fig. 2 I_V - I_F

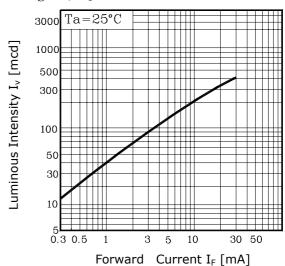


Fig. $3 I_F - Ta$

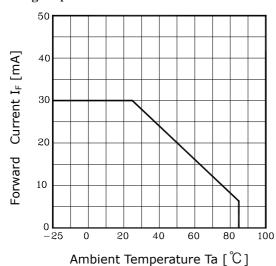


Fig.4 Spectrum Distribution

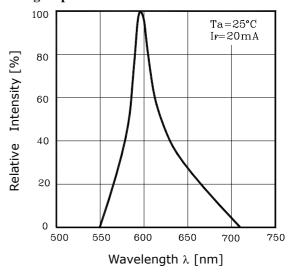
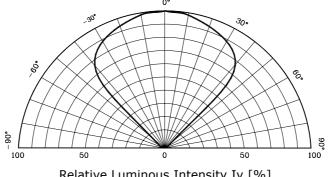


Fig. 5 Radiation Diagram



Relative Luminous Intensity Iv [%]

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