

Dual Chip LED Lamp

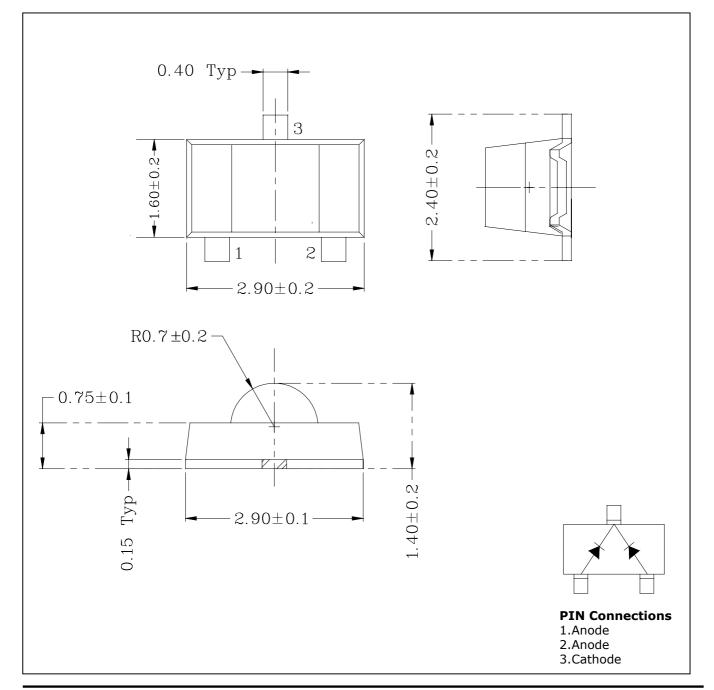


Features

- Compact type
- $\bullet \ Radiation \ size \ 1.3mm \times 2.9mm$
- Radiation color (Red, Green)
- Surface mount lead configuration

Outline Dimensions

unit: mm



Absolute maximum ratings

Characteristic	Symbol Ratings		Unit		
Power Dissipation	P _D 55		mW		
Forward Current	I_{F}	30	mA		
*1Peak Forward Current	I_{FP}	50	mA		
Reverse Voltage	V_R	4	V		
Operating Temperature	T_{opr}	-25~85	$^{\circ}$		
Storage Temperature	T _{stg}	-30~100	$^{\circ}$		
*2Soldering Temperature	T _{sol}	240℃ for 5 seconds			

Electrical Characteristics

Characteristic	Symbol		Test Condition	Min.	Тур.	Max.	Unit
Forward Voltage	V _F	Red	I _F = 20mA	-	1.9	2.6	V
		Y-Green		-	2.1	2.8	
Luminous Intensity	I _V	Red	I _F = 20mA	-	30	-	mcd
		Y-Green		-	18	-	
Peak Wavelength	λ_{P}	Red	I _F = 20mA	-	660	-	- nm
		Y-Green			570		
Spectrum Bandwidth	Δλ	Red	I _F = 20mA	-	35	-	nm
		Y-Green			30		
Reverse Current	${ m I}_{\sf R}$		$V_R=4V$	-	-	10	uA
* ³ Half angle	θ1/2		$I_F = 20mA$	-	±60	-	deg

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

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^{*1.}Duty ratio = 1/16, Pulse width = 0.1ms *2.Recommended soldering condition ⇒ Attached

Characteristic Diagrams

Fig. 1 I_F - V_F

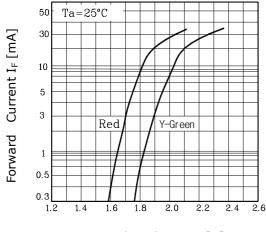
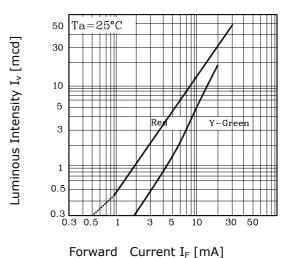


Fig. 2 I_V - I_F



Forward Voltage V_F [V]

Fig. 3 I_F – Ta

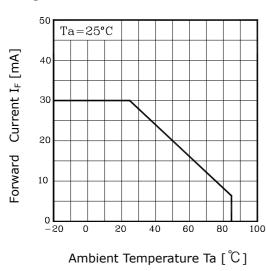


Fig.4 Spectrum Distribution

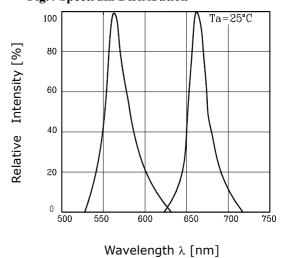
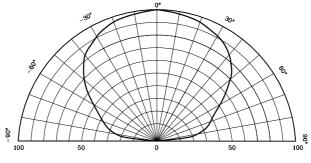


Fig. 5-1 Radiation Diagram



Relative Luminous Intensity Iv [%]

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