



#### **Features**

- 1.6mm(L)×0.8mm(W) small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip led
- Emitting Light Yellow Green (570nm)

## **Applications**

- LCD backlighting
- Keypad backlighting
- Symbol backlighting
- Front panel indicator lamp

**Outline Dimensions** unit: mm 1.57~1.63 0.22 Max. 0.53~0.57 Cathode Anode

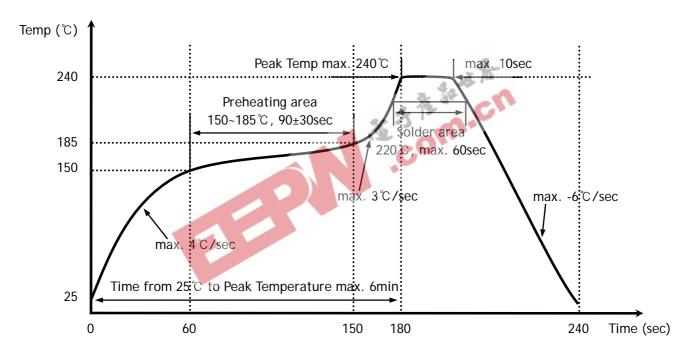
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# **Absolute Maximum Ratings**

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

Characteristic	Symbol	Rating	Unit
Power dissipation	$P_D$	60	mW
Forward current	$I_{F}$	25	mA
*¹Peak forward current	$I_{FP}$	50	mA
Reverse voltage	$V_R$	4	V
Operating temperature range	$T_{opr}$	-25~80	$^{\circ}$
Storage temperature range	$T_{stg}$	-30~100	$^{\circ}$
*2Soldering temperature	$T_{sol}$	240℃ for 10 seconds	

<sup>\*1.</sup> Duty ratio = 1/16, Pulse width = 0.1ms



# **Electrical / Optical Characteristics**

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

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	$V_{F}$	I <sub>F</sub> = 20mA	2.0	ı	2.4	V
* <sup>3</sup> Luminous intensity	$I_{V}$	I <sub>F</sub> = 20mA	4	-	17	mcd
Peak wavelength	$\lambda_{P}$	I <sub>F</sub> = 20mA	562	568	574	nm
Spectrum bandwidth	$\Delta_{\lambda}$	I <sub>F</sub> = 20mA	-	30	-	nm
Reverse current	$I_{R}$	V <sub>R</sub> =4V	-	-	10	uA
* <sup>4</sup> Half angle	θ1/2 X	I <sub>F</sub> = 20mA	-	±65	-	deg
	91/2 Y		_	±70	-	

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<sup>\*2.</sup> Recommended reflow soldering temperature profile

- \*3. Luminous intensity maximum tolerance for each grade classification limit is  $\pm 18\%$ (The test result of  $I_F=20$ mA is only for reference)
- \*4.  $\theta$ 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity
- $V_F$  /  $I_V$  /  $\lambda_P$  Grade Classification (Ta=25 $^{\circ}$ C)

Test Condition @ I <sub>F</sub> =20mA					
Forward Voltage [V]	Luminous Intensity [mcd]	Peak Wavelength [nm]			
1:2.0~2.2	1:2.0~2.2 E:4~6				
	F:6~10				
2:2.2~2.4	G : 10~17	b : 568~574			

(Do not use to combine grade classification. It must be used separately grade classification)



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## **Characteristic Diagrams**

Fig. 1  $I_F$  -  $V_F$ 

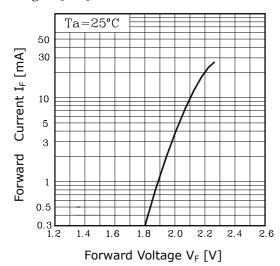


Fig. 2  $I_V$  -  $I_F$ 

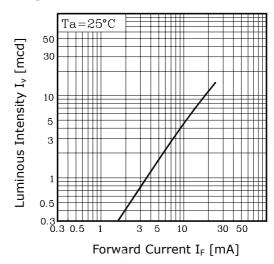


Fig.  $3 I_F - Ta$ 

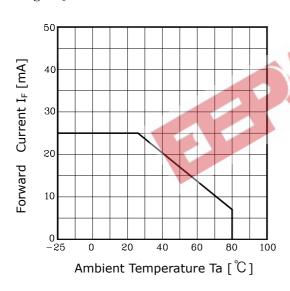


Fig.4 Spectrum Distribution

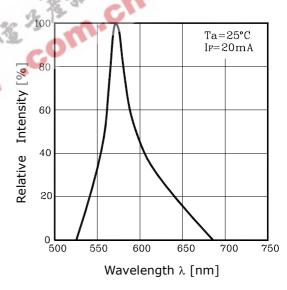


Fig. 5-1 Radiation Diagram(X)

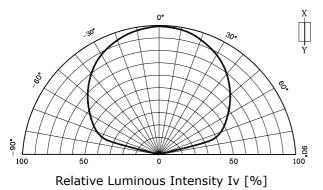
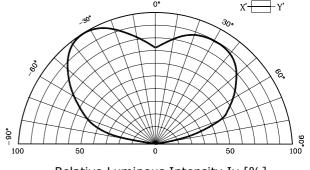


Fig. 5-2 Radiation Diagram(Y)



Relative Luminous Intensity Iv [%]

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