unit: mm



#### **Features**

- Colorless transparency lens type
- Compact type
- Radiation size 3.5mm ×2.8mm
- Surface mount lead configuration

# **Applications**

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

### **Outline Dimensions**

 $2.8 \pm 0.2$ Cathode Marke  $2.2 \pm 0.2$ 0.5 -0.15 $3.5\pm_{0.2}$   $2.4\pm_{0.2}$ <del>---</del> 1.1 - $1.2 \pm 0.2$ **PIN Connections** - 2.8±<sub>0.2</sub>-1. Cathode 2. Anode

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## Absolute maximum ratings

Characteristic	Symbol	Ratings U		
Power Dissipation	$P_{D}$	80	mW	
Forward Current	${ m I}_{\sf F}$	20	mA	
*¹Peak Forward Current	$I_{FP}$	50	mA	
Reverse Voltage	$V_R$	4	V	
Operating Temperature	$T_{opr}$	-40~100	Ĉ	
Storage Temperature	$T_{stg}$	-40~110	°C	
*2Soldering Temperature	T <sub>sol</sub>	240℃ for 5 seconds		

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

### **Electrical Characteristics**

Characteristic	Symbol	<b>Test Condition</b>	Min	Тур	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	2.6	3.3	4.2	V
* <sup>3</sup> Luminous Intensity	I <sub>V</sub>	I <sub>F</sub> = 20mA	68	80	155	mcd
Peak Wavelength	$\lambda_{ m P}$	I <sub>F</sub> = 20mA	-	468	-	nm
Spectrum Bandwidth	Δλ	I <sub>F</sub> = 20mA	-	20	-	nm
Reverse Current	$I_{R}$	V <sub>R</sub> =4V	-	-	10	μА
* <sup>4</sup> Half angle	θ1/2	I <sub>F</sub> = 20mA	-	±55	-	deg

<sup>\*3.</sup>  $\theta$ 1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

<sup>\*4.</sup> Luminous Intensity classification

K	L				
68~100	100~155				

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<sup>\*2.</sup>Recommended soldering condition  $\Rightarrow$  Attached

<sup>\*4.</sup> Luminous intensity maximum tolerance for each grade classification limits  $\pm 18\%$ 

# **Characteristic Diagrams**

Fig. 1  $I_F$  -  $V_F$ 

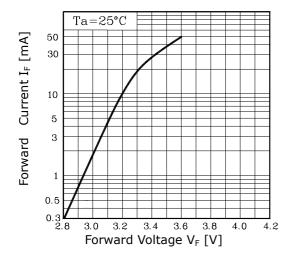


Fig.  $3 I_F - Ta$ 

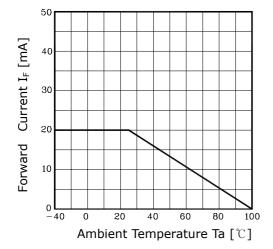


Fig. 2  $I_V$  -  $I_F$ 

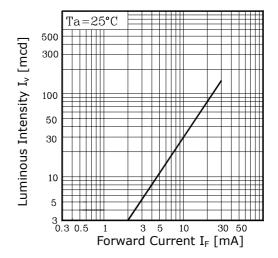


Fig.4 Spectrum Distribution

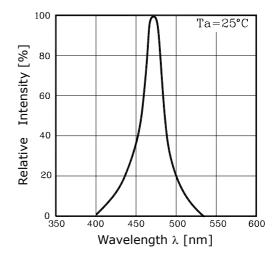
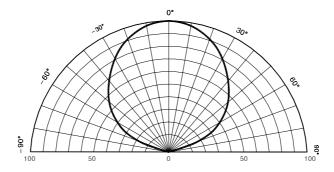


Fig. 5 Radiation Diagram



Relative Luminous Intensity Iv [%]

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