

Features

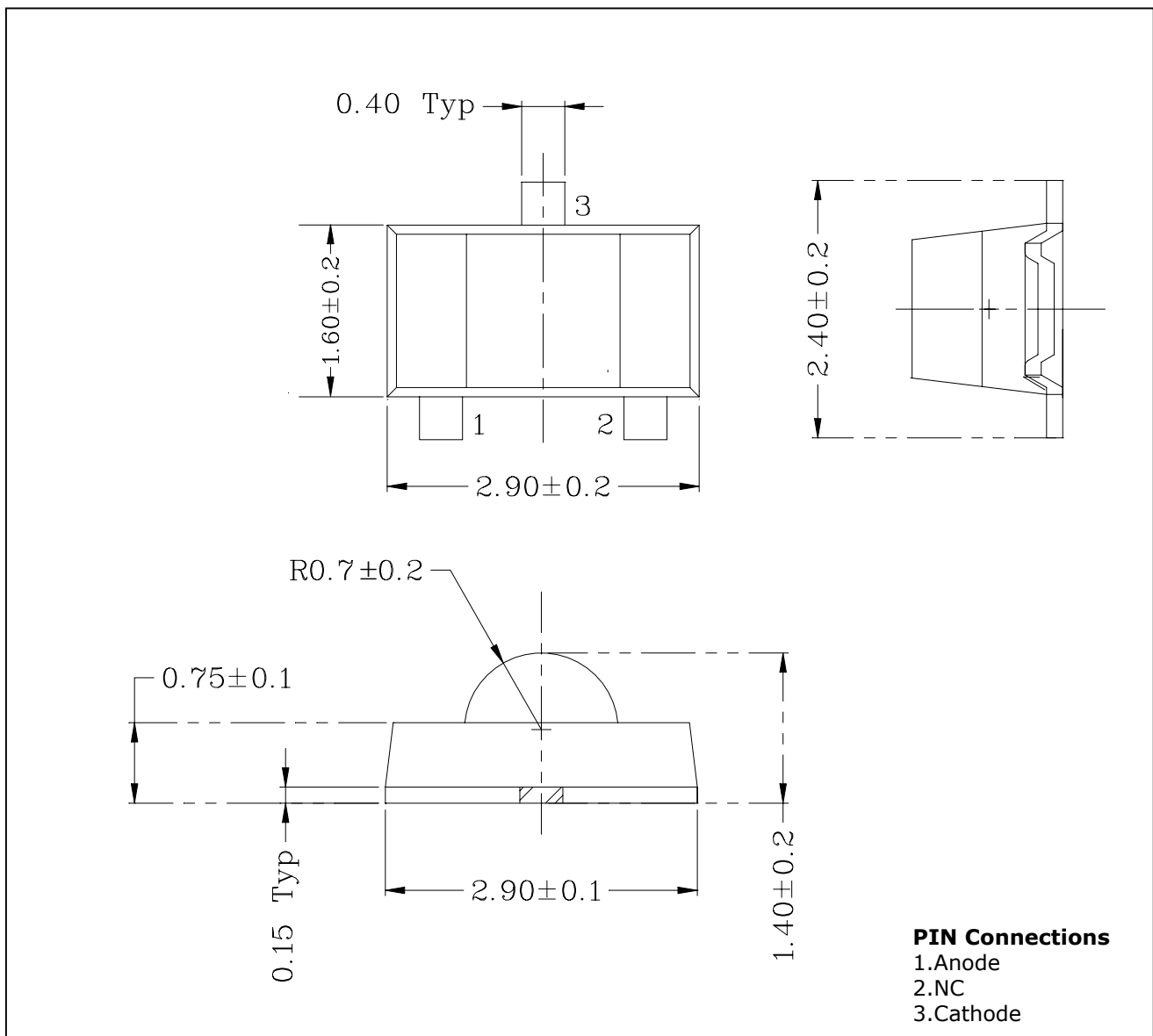
- Colorless transparency lens type
- Compact type
- Radiation size 2.9mm(L)×1.6mm(W) surface mount type

Applications

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

Outline Dimensions

unit : mm



Absolute maximum ratings

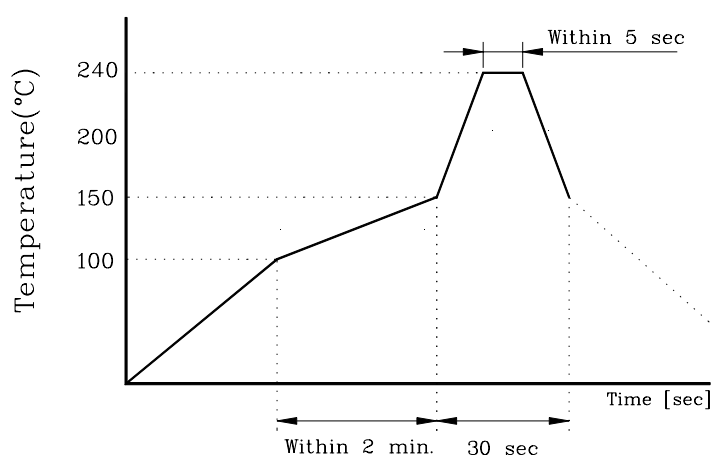
Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	70	mW
Forward Current	I_F	25	mA
*1Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-20 ~ 80	°C
Storage Temperature	T_{stg}	-25 ~ 85	°C
*2Soldering Temperature (Reflow soldering)	T_{sol}	240°C for 3 seconds	

*1. Duty ratio = 1/16, Pulse width = 0.1ms

*2. Recommended soldering Temperature Profile

2-1) Preheating 100°C to 150°C within 2 minutes Soldering 240°C within 5 seconds

Gradual cooling (Avoid quenching)



Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 20\text{mA}$	-	2.0	2.7	V
Luminous Intensity	I_V	$I_F = 20\text{mA}$	-	8	-	mcd
Peak Wavelength	λ_p	$I_F = 20\text{mA}$	-	630	-	nm
Spectrum Bandwidth	$\Delta\lambda$	$I_F = 20\text{mA}$	-	25	-	nm
Reverse Current	I_R	$V_R = 4\text{V}$	-	-	10	uA
*3Half Angle	$\theta_{1/2}$	$I_F = 20\text{mA}$	-	± 60	-	deg

*3. $\theta_{1/2}$ is the off-axis angle where the luminous intensity is 1/2 the peak intensity

Characteristic Diagrams

Fig. 1 $I_F - V_F$

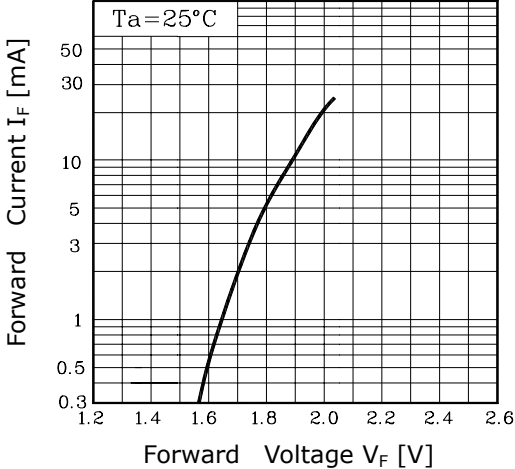


Fig. 2 $I_V - I_F$

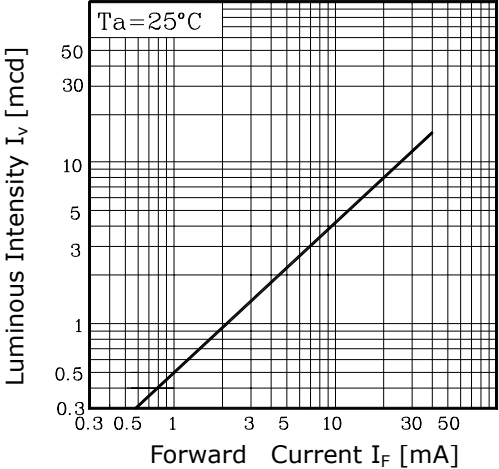


Fig. 3 $I_F - T_a$

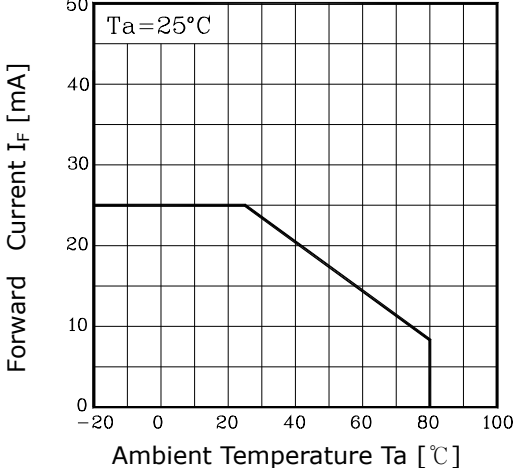


Fig.4 Spectrum Distribution

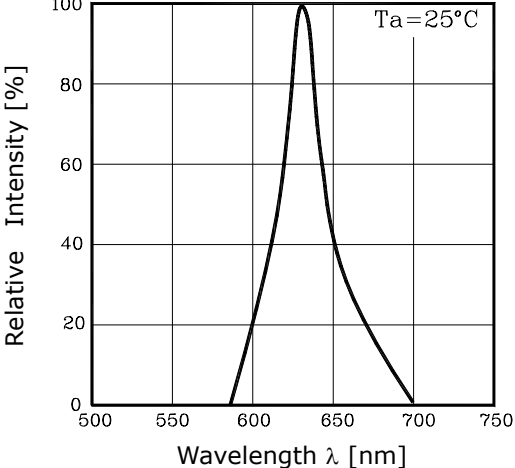
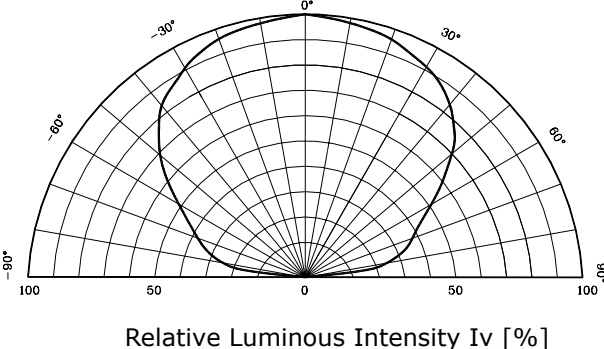


Fig. 5-1 Radiation Diagram



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