



# SR1316-H

High Brightness Chip LED Lamp

## Features

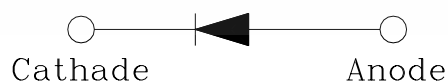
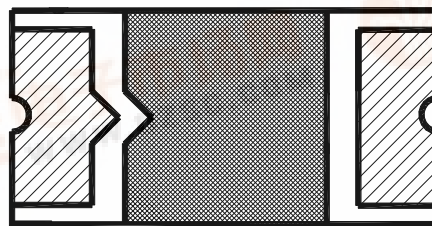
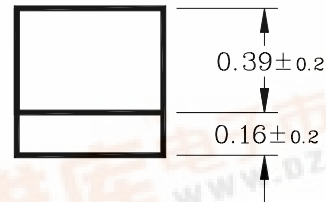
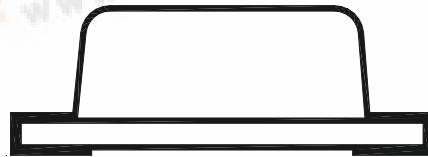
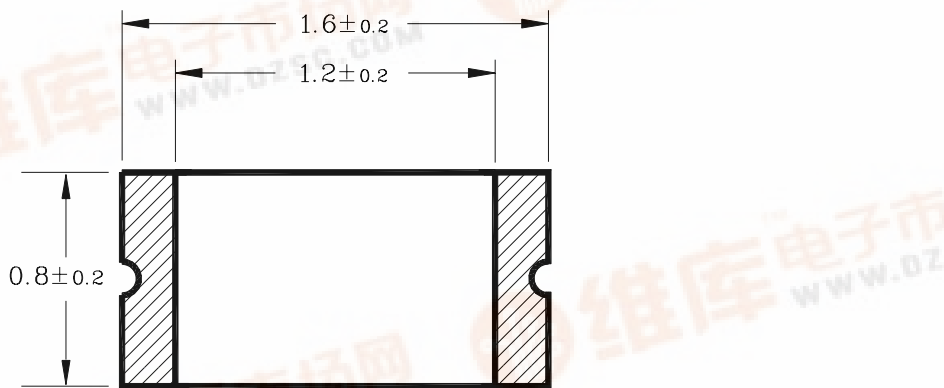
- 1.6mm(L)×0.8mm small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- High luminous

## Applications

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

## Outline Dimensions

unit : mm

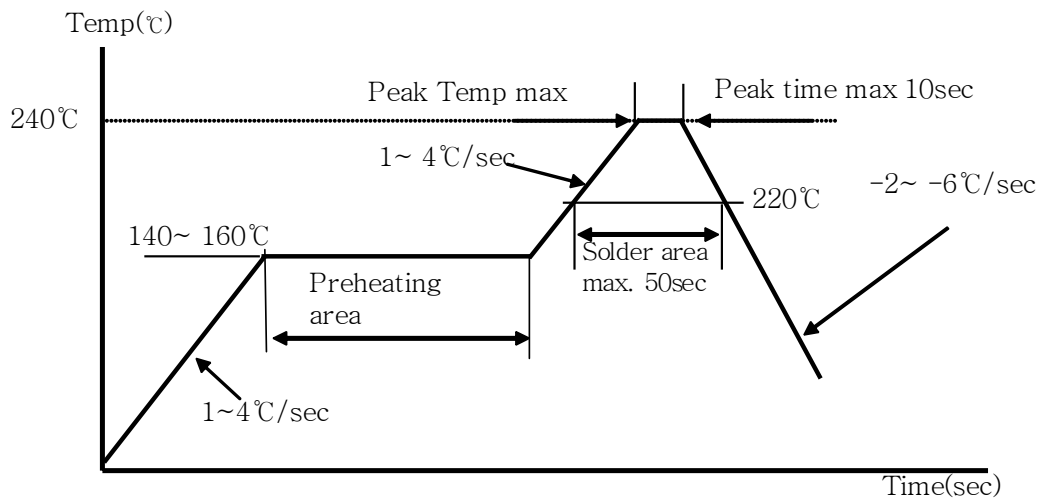


## Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	$P_D$	65	mW
Forward Current	$I_F$	25	mA
*1Peak Forward Current	$I_{FP}$	50	mA
Reverse Voltage	$V_R$	4	V
Operating Temperature	$T_{opr}$	-25 ~ 80	°C
Storage Temperature	$T_{stg}$	-30 ~ 100	°C
*2Soldering Temperature	$T_{sol}$	240°C for 5 seconds	

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

\*2.Recommended soldering Temperature Profile



## Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F=20\text{mA}$	-	1.8	2.5	V
Luminous Intensity	$I_V$	$I_F=20\text{mA}$	-	8	-	mcd
Peak Wavelength	$\lambda_P$	$I_F=20\text{mA}$	-	660	-	nm
Spectrum Bandwidth	$\Delta\lambda$	$I_F=20\text{mA}$	-	20	-	nm
Reverse Current	$I_R$	$V_R=4\text{V}$	-	-	10	uA
*3Half Angle	$\theta_{1/2}$	$I_F=20\text{mA}$	-	$\pm 65$	-	deg
	X Y		-	$\pm 70$	-	

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

Characteristic Diagrams

Fig. 1  $I_F - V_F$

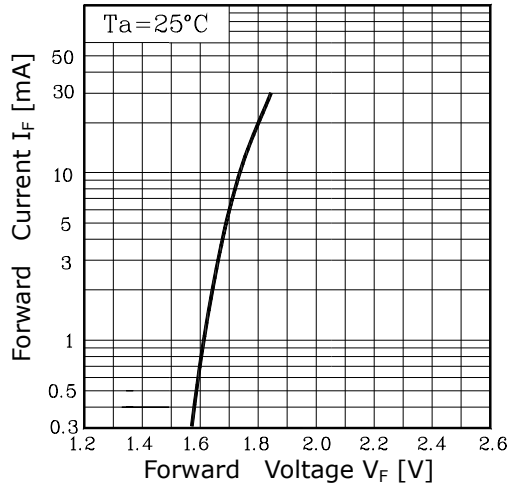


Fig. 2  $I_V - I_F$

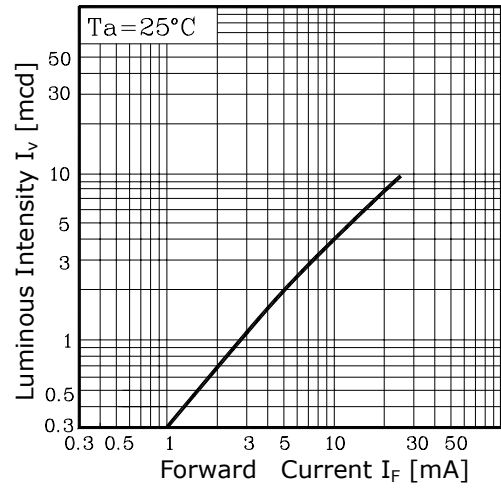


Fig. 3  $I_F - T_a$

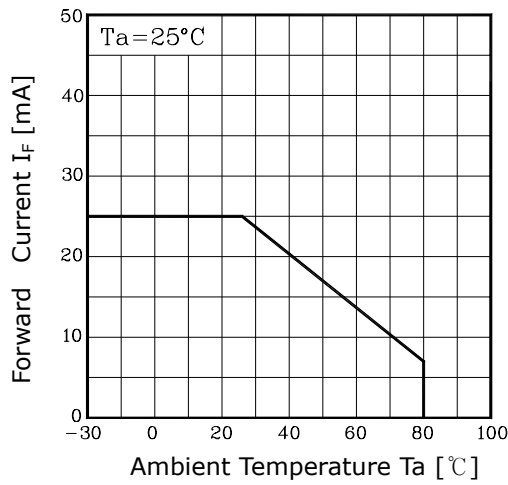


Fig. 4 Spectrum Distribution

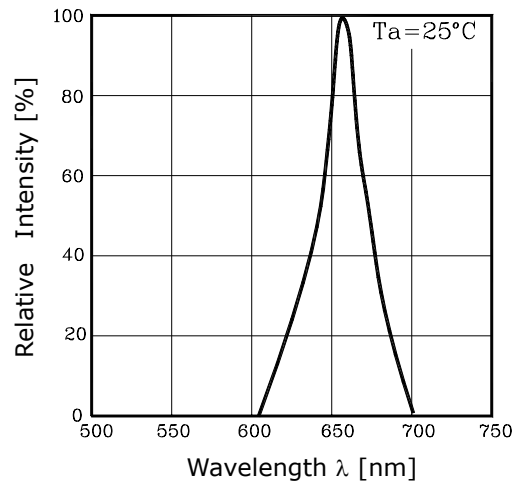


Fig. 5-1 Radiation Diagram

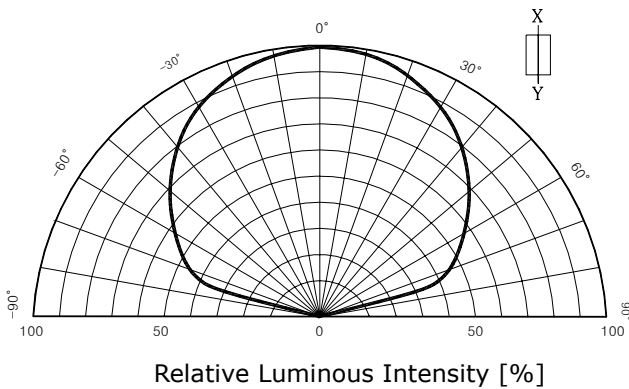
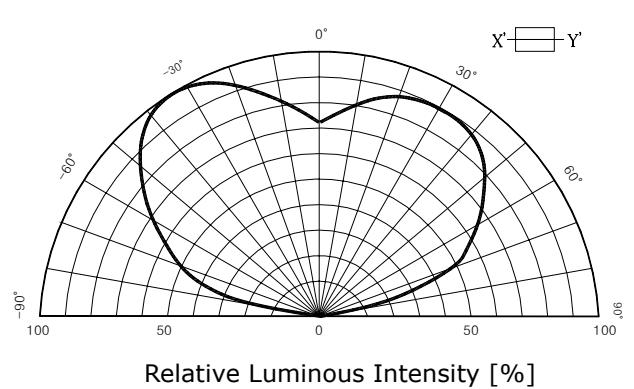


Fig. 5-2 Radiation Diagram



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