

SO1316

Chip LED Lamp

Features

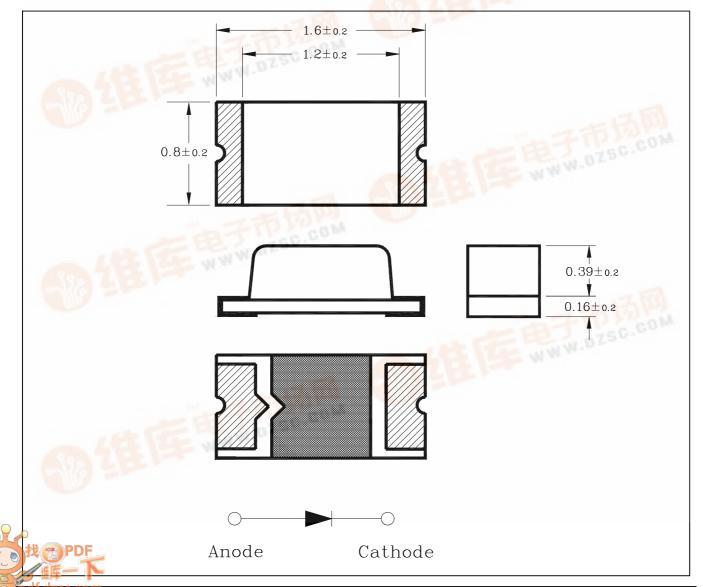
- 1.6mm(L)×0.8mm small size surface mount type
- Thin package of 0.55mm(H) thickness
- Transparent clear lens optic
- Low power consumption type chip LED

Applications

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

Outline Dimensions

unit: mm



KLO-9001-002

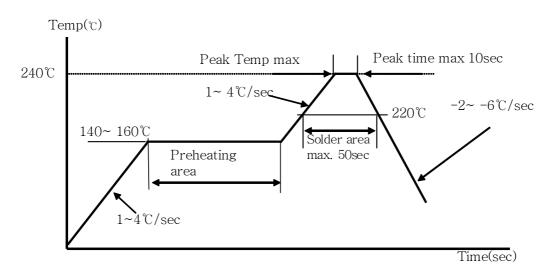
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Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P_D	70	mW
Forward Current	I_{F}	25	mA
* ¹ Peak Forward Current	${ m I}_{\sf FP}$	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25~80	°C
Storage Temperature	T_{stg}	-30~100	°C
* ² Soldering Temperature	T _{sol}	240℃ 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 = 20mA	-	2.0	2.8	V
* ⁴ Luminous Intensity	I _V	I _F = 20mA	-	4	-	mcd
Peak Wavelength	$\lambda_{ m P}$	I _F = 20mA	-	615	-	nm
Spectrum Bandwidth	Δλ	I _F = 20mA	-	35	-	nm
Reverse Current	I _R	V _R =4V	-	-	10	uA
* ³ Half Angle	θ1/2 X	I _F = 20mA	-	±65	-	deg
	Y		-	±70	_	

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

^{*4.} Luminous Intensity classification

D	Е	F		
2.6~4.1	4.1~6.6	6.6~10		

^{*4.} Luminous Intensity Maximum tolerance for each Grade Classification limit is $\pm 18\%$

Characteristic Diagrams

Fig. 1 I_F - V_F

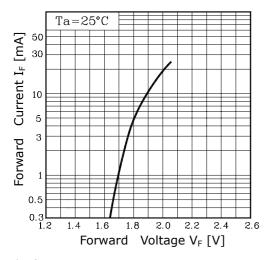


Fig. $3 I_F - Ta$

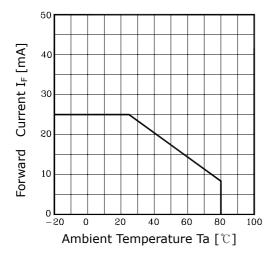
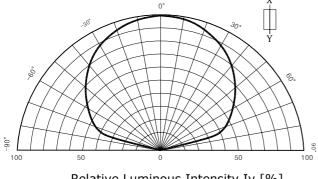


Fig. 5-1 Radiation Diagram(X)



Relative Luminous Intensity Iv [%]

Fig. 2 I_V - I_F

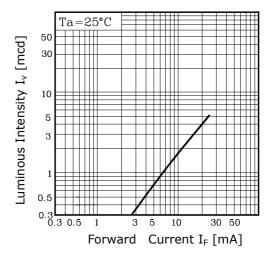


Fig.4 Spectrum Distribution

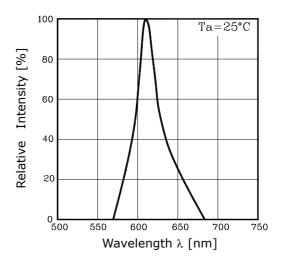
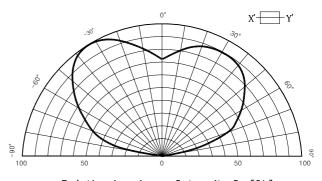


Fig. 5-2 Radiation Diagram(Y)



Relative Luminous Intensity Iv [%]

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