

SO1316

Chip LED Lamp

unit: mm

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

1.6±0.2 1.2±0.2 — 0.8 ± 0.2 0.39 ± 0.2 0.16±0.2 Anode Cathode

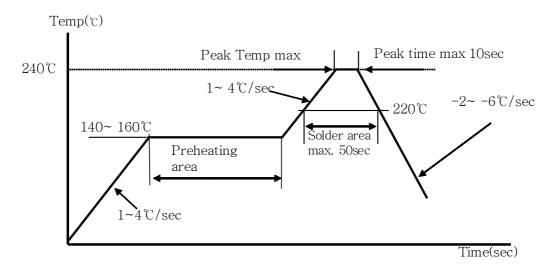
KLO-9001-002

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Power Dissipation	P _D	70	mW
Forward Current	${ m I}_{\sf F}$	25	mA
*1Peak Forward Current	I_{FP}	50	mA
Reverse Voltage	V_R	4	V
Operating Temperature	T_{opr}	-25~80	$^{\circ}$ C
Storage Temperature	T _{stg}	-30~100	$^{\circ}$
*2Soldering 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
*4Luminous Intensity	I_{V}	I _F = 20mA	-	4	-	mcd
Peak Wavelength	λ_{P}	I _F = 20mA	-	615	-	nm
Spectrum Bandwidth	Δλ	I _F = 20mA	-	35	-	nm
Reverse Current	I_R	V _R =4V	-	1	10	uA
* ³ Half Angle	θ1/2 X	$I_F=20mA$	-	±65	-	deg
	Υ Υ	1 _F - 2011IA	-	±70	_	ueg

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

^{*4.} Luminous Intensity classification

D	E	F			
2.6~4.1	4.1~6.6	6.6~10			

KLO-9001-002

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

Characteristic Diagrams

Fig. 1 I_F - V_F

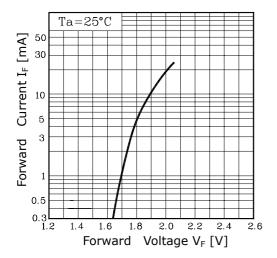


Fig. $3 I_F - Ta$

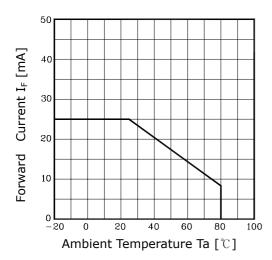


Fig. 5-1 Radiation Diagram(X)

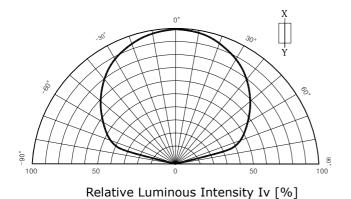


Fig. 2 I_V - I_F

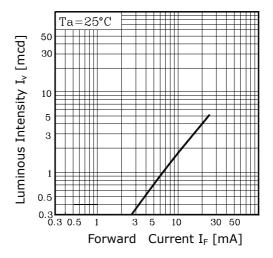


Fig.4 Spectrum Distribution

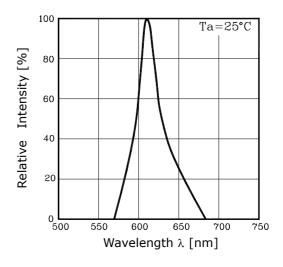
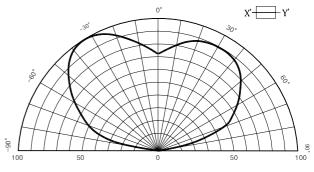


Fig. 5-2 Radiation Diagram(Y)



Relative Luminous Intensity Iv [%]

KLO-9001-002

These AUK products are intended for usage in general electronic equipments (Office and communication equipment, measuring equipment, domestic electrification, etc.).

Please make sure that you consult with us before you use these AUK products in equipments which require high quality and/or reliability, and in equipments which could have major impact to the welfare of human life(atomic energy control, airplane, spaceship, traffic signal, combustion central, all types of safety device, etc.).

AUK cannot accept liability to any damage which may occur in case these AUK products were used in the mentioned equipments without prior consultation with AUK.

KLO-9001-002 4