

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KP-1608SYCK Super Bright Yellow

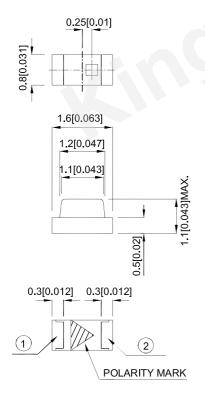
Features

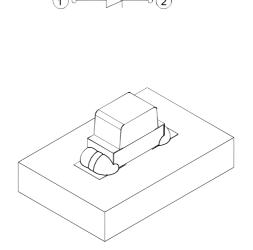
- 1.6mmX0.8mm SMD LED, 1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions





SPEC NO: DSAB5347

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- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- 3.The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

 4.The device has a single mounting surface. The device must be mounted according to the specifications.

REV NO: V.19B

DATE: OCT/05/2015 PAGE: 1 OF 5 ERP: 1203000080 **CHECKED: Allen Liu** DRAWN: F.T.Liu



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
KP-1608SYCK	Super Bright Yellow (AlGaInP)	Water Clear	80	150	120°

- 1. 01 / 2 is the angle from optical centerline where the luminous intensity is 1 / 2 of the optical peak value.
 2. Luminous intensity / luminous Flux: + / -15%.
 3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20	A	nm	IF=20mA
С	Capacitance	Super Bright Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	2	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Yellow		10	uA	VR=5V

- Wavelength: + / -1nm.
 Forward Voltage: + / -0.1V.
 Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or

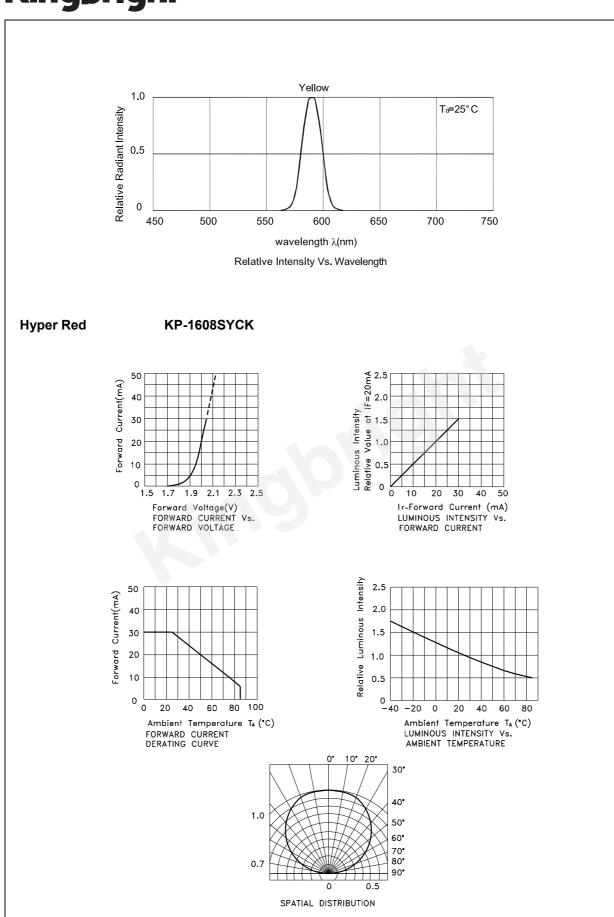
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	175	mA	
Electrostatic Discharge Threshold (HBM)	3000	V	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
torage Temperature -40°C To +85°C			

1. 1 / 10 Duty Cycle, 0.1ms Pulse Width.

SPEC NO: DSAB5347 **REV NO: V.19B** DATE: OCT/05/2015 PAGE: 2 OF 5 DRAWN: F.T.Liu ERP: 1203000080 APPROVED: Wynec **CHECKED: Allen Liu**

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 SPEC NO: DSAB5347
 REV NO: V.19B
 DATE: OCT/05/2015
 PAGE: 3 OF 5

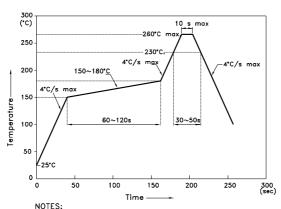
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KP-1608SYCK

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

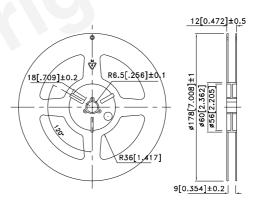
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

 3.Number of reflow process shall be 2 times or less.

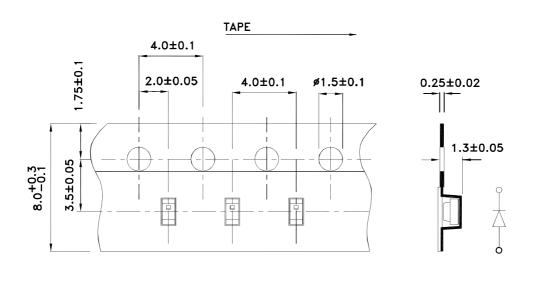
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Reel Dimension



Tape Dimensions (Units: mm)



SPEC NO: DSAB5347 **APPROVED: Wynec**

REV NO: V.19B CHECKED: Allen Liu

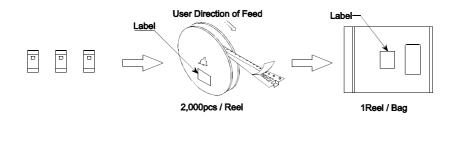
DATE: OCT/05/2015 DRAWN: F.T.Liu

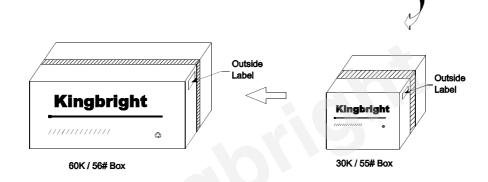
PAGE: 4 OF 5 ERP: 1203000080

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PACKING & LABEL SPECIFICATIONS

KP-1608SYCK







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 SPEC NO: DSAB5347
 REV NO: V.19B
 DATE: OCT/05/2015
 PAGE: 5 OF 5

 APPROVED: Wynec
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