

3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: KPPA-3010SYCK

Super Bright Yellow

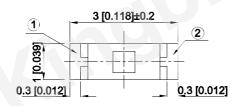
Features

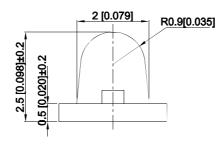
- 3.0x2.5x1.0mm right angle SMD LED, 1.0mm thickness.
- Low power consumption.
- Ideal for back light and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

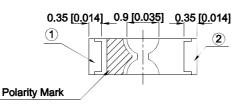
Description

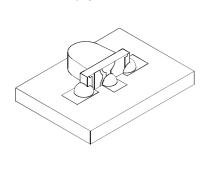
The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAH4927 **REV NO: V.6B DATE: JAN/18/2016** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: M.Liu ERP: 1203006813



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,,	Min.	Тур.	201/2
KPPA-3010SYCK	Super Bright Yellow (AlGaInP)	Water Clear	300	450	30°

Notes:

- θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 Luminous intensity / luminous Flux: +/-15%.
 Luminous intensity value is traceable to CIE127-2007 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		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
IR	Reverse Current	Super Bright Yellow		10	uA	V _R =5V

- 1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to CIE127-2007 standards.

 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

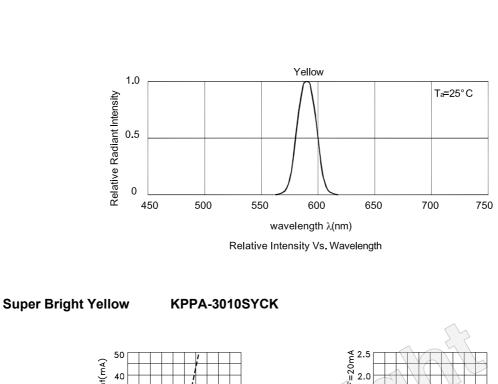
Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	175	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

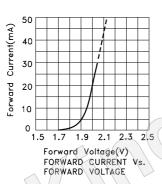
Notes:

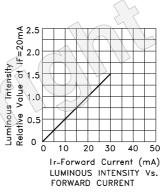
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

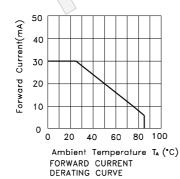
PAGE: 2 OF 5 SPEC NO: DSAH4927 **REV NO: V.6B DATE: JAN/18/2016 APPROVED: Wynec CHECKED: Allen Liu** DRAWN: M.Liu ERP: 1203006813

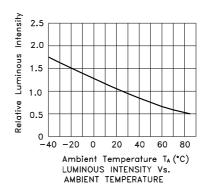
Kingbright

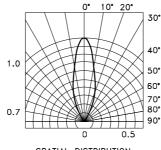












SPATIAL DISTRIBUTION

 SPEC NO: DSAH4927
 REV NO: V.6B
 DATE: JAN/18/2016
 PAGE: 3 OF 5

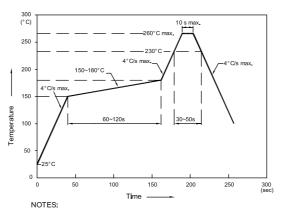
 APPROVED: Wynec
 CHECKED: Allen Liu
 DRAWN: M.Liu
 ERP: 1203006813

Kingbright

KPPA-3010SYCK

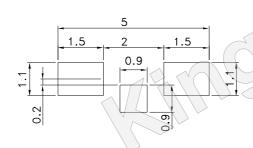
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



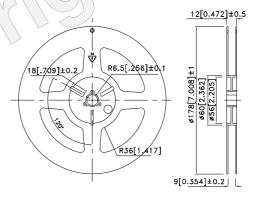
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

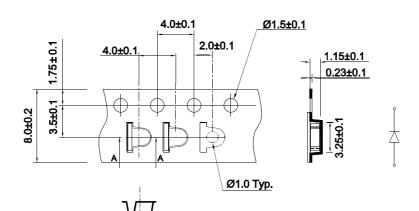
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)

Reel Dimension





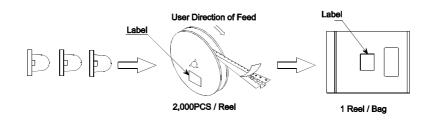
TAPE

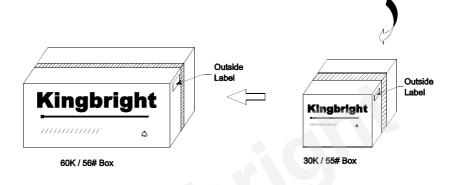
SPEC NO: DSAH4927 APPROVED: Wynec REV NO: V.6B CHECKED: Allen Liu DATE: JAN/18/2016 DRAWN: M.Liu PAGE: 4 OF 5 ERP: 1203006813

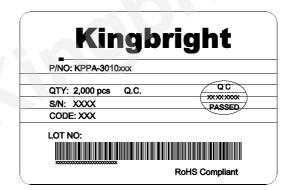
Kingbright

PACKING & LABEL SPECIFICATIONS

KPPA-3010SYCK







Terms and conditions for the usage of this document

- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application notes

 SPEC NO: DSAH4927
 REV NO: V.6B
 DATE: JAN/18/2016
 PAGE: 5 OF 5

 APPROVED: Wynec
 CHECKED: Allen Liu
 DRAWN: M.Liu
 ERP: 1203006813