

3.0x1.0 mm SMD CHIP LED LAMP

PRELIMINARY SPEC

Part Number: APECVA3010SYCK

Super Bright Yellow

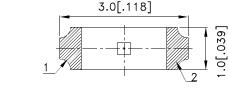
Features

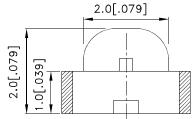
- •3.0mmx1.0mm SMT LED, 2.0mm thickness.
- •Low power consumption.
- •Wide viewing angle.
- •Ideal for back light and indicator.
- ●Package: 2000pcs / reel.
- •Moisture sensitivity level : level 3.
- ●RoHS compliant.

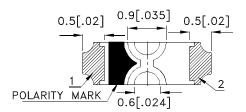
Description

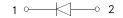
The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

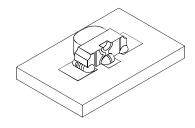
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





SPEC NO: DSAJ1865 **REV NO: V.1** DATE: MAR/19/2009 PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1203009107

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Min.	Тур.	201/2
APECVA3010SYCK	Super Bright Yellow (AlGaInP)	WATER CLEAR	50	150	120°

Notes:

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	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
lr	Reverse Current	Super Bright Yellow		10	uA	V _R =5V

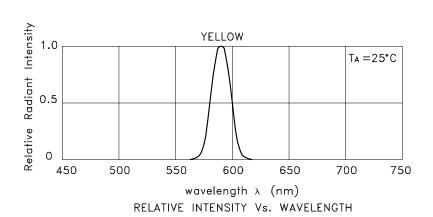
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

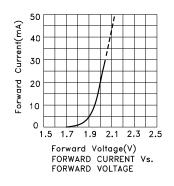
Parameter	Super Bright Yellow	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	175	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

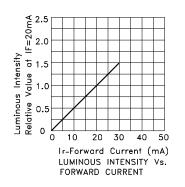
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

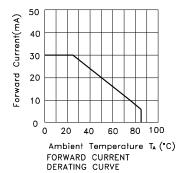
SPEC NO: DSAJ1865 **REV NO: V.1** DATE: MAR/19/2009 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1203009107

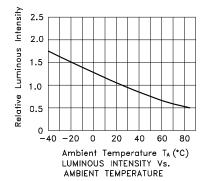


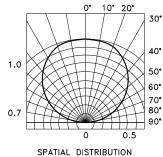
Super Bright Yellow APECVA3010SYCK











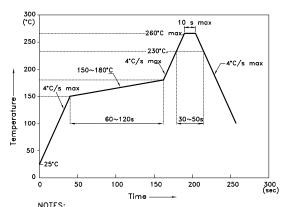
 SPEC NO: DSAJ1865
 REV NO: V.1
 DATE: MAR/19/2009
 PAGE: 3 OF 5

 APPROVED: WYNEC
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APECVA3010SYCK

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.



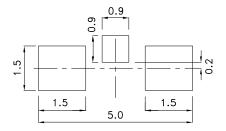
- NOTES:

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

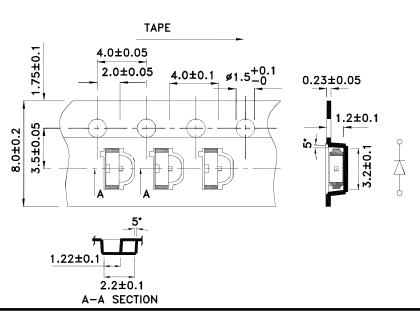
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

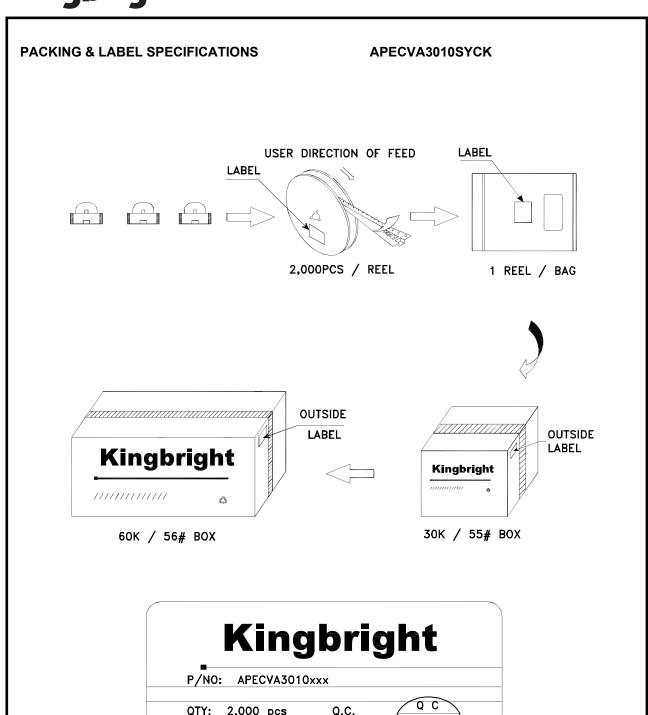
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

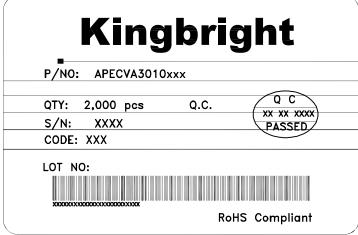


Tape Dimensions (Units: mm)



SPEC NO: DSAJ1865 **REV NO: V.1 DATE: MAR/19/2009** PAGE: 4 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1203009107





SPEC NO: DSAJ1865 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: MAR/19/2009 DRAWN: Y.F.Lu PAGE: 5 OF 5 ERP: 1203009107