

### 3.2x2.4mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: KPEKA-3224SYCK

Super Bright Yellow

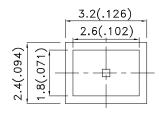
#### **Features**

- 3.2mmx2.4mm RIGHT ANGLE SMT LED, 2.4mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE: 1500PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

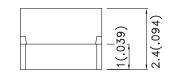
### Description

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

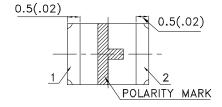
# **Package Dimensions**

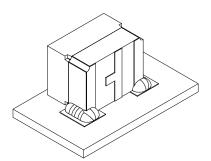












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.2 (0.0079")$  unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





SPEC NO: DSAB8799 **REV NO: V.8 DATE: FEB/20/2008** PAGE: 1 OF 4 CHECKED: Allen Liu APPROVED: WYNEC DRAWN: Ting.Li ERP: 1204000014

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## **Selection Guide**

Part No.	Dice	Iv (mcd) [2]   Dice		,	Viewing Angle [1]
			Min.	Тур.	201/2
KPEKA-3224SYCK	Super Bright Yellow (InGaAIP)	WATER CLEAR	50	120	90°

- 1.  $\theta$ 1/2 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	V <sub>F</sub> =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 <sub>R</sub> =5V

### Notes:

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

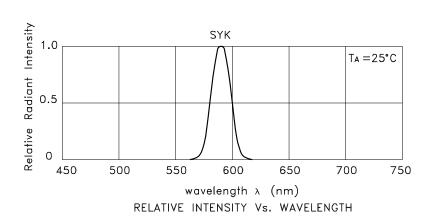
#### Absolute Maximum Ratings at TA=25°C

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.

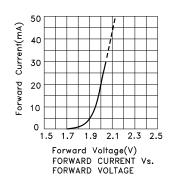
SPEC NO: DSAB8799 **REV NO: V.8 DATE: FEB/20/2008** PAGE: 2 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Ting.Li ERP: 1204000014

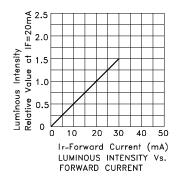
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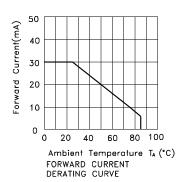


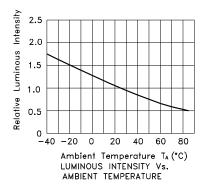
# Super Bright Yellow

## KPEKA-3224SYCK



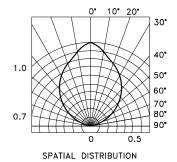






PAGE: 3 OF 4

ERP: 1204000014



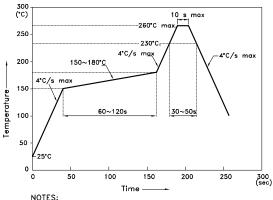
SPEC NO: DSAB8799 REV NO: V.8 DATE: FEB/20/2008

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### **KPEKA-3224SYCK**

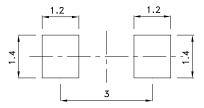
Reflow Soldering Profile For Lead-free SMT Process.



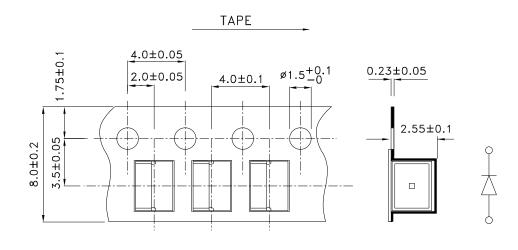
- NOTES:

  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 Specifications** (Units: mm)



SPEC NO: DSAB8799 **REV NO: V.8 DATE: FEB/20/2008** PAGE: 4 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1204000014 DRAWN: Ting.Li