

2.0x1.25mm SMD CHIP LED LAMP

Part Number: KP-2012SYD Super Bright Yellow

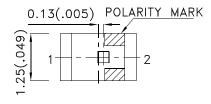
Features

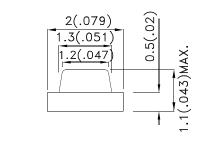
- 2.0mmx1.25mm SMT LED,1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

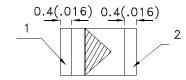
Description

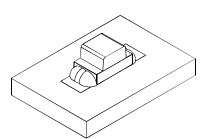
The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions









Notes:

- All dimensions are in millimeters (inches).
 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.

SPEC NO: DSAE5607 **REV NO: V.5** DATE: APR/21/2010 PAGE: 1 OF 5 CHECKED: Allen Liu ERP: 1203000199 APPROVED: WYNEC DRAWN: Y.F.Lv

Selection Guide

Part No.	Dice	Dice Lens Type		lv (mcd) [2] @ 20mA	
				Тур.	201/2
KP-2012SYD	Super Bright Yellow (AlGaInP)	YELLOW DIFFUSED	36	150	120°

- 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%.

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	28		nm	I=20mA
С	Capacitance	Super Bright Yellow	25		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

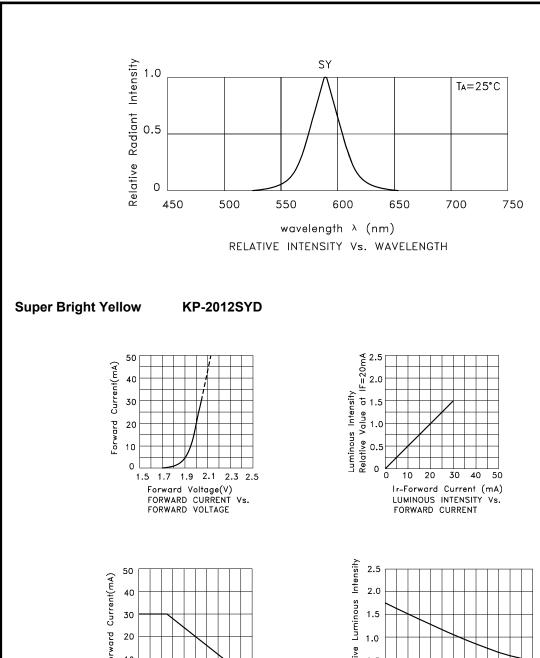
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

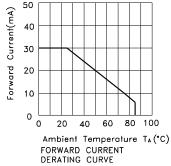
Absolute Maximum Ratings at TA=25°C

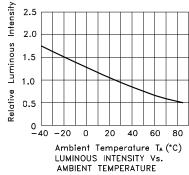
Parameter	Super Bright Yellow	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

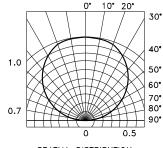
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

SPEC NO: DSAE5607 **REV NO: V.5** DATE: APR/21/2010 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lv ERP: 1203000199









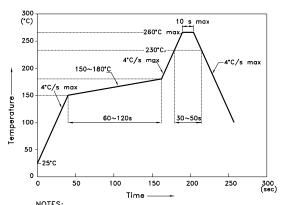
SPATIAL DISTRIBUTION

SPEC NO: DSAE5607 **REV NO: V.5** DATE: APR/21/2010 PAGE: 3 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1203000199 DRAWN: Y.F.Lv

KP-2012SYD

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.



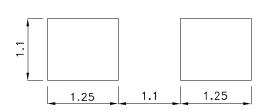
- NOTES:

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

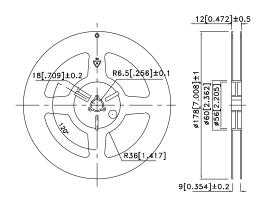
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
- to high temperature.

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

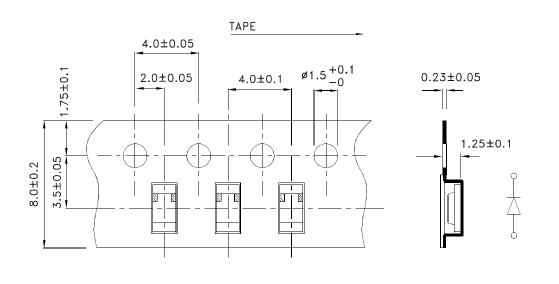
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Reel Dimension

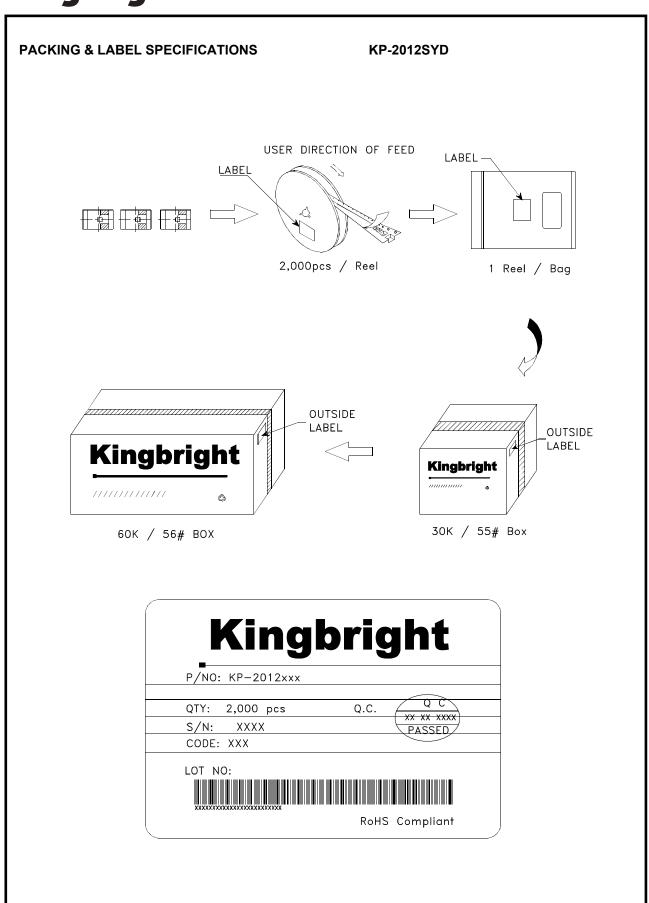


Tape Dimensions (Units : mm)



 SPEC NO: DSAE5607
 REV NO: V.5
 DATE: APR/21/2010
 PAGE: 4 OF 5

 APPROVED: WYNEC
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SPEC NO: DSAE5607 APPROVED: WYNEC REV NO: V.5 CHECKED: Allen Liu DATE: APR/21/2010 DRAWN: Y.F.Lv PAGE: 5 OF 5 ERP: 1203000199