

3.5 x2.8mm SMD CHIP LED LAMP

Part Number: KPED-3528SYCK

Super Bright Yellow

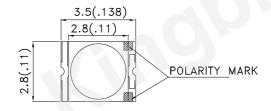
Features

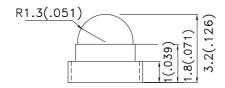
- Single color.
- Suitable for all SMT assembly and solder process.
- Ideal for backlighting.
- Available on tape and reel.
- Package: 500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

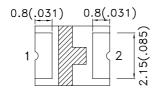
The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

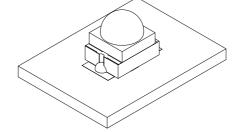
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2(0.008")$ 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: DSAC2459 **REV NO: V.12B** DATE: MAR/18/2013 PAGE: 1 OF 5 CHECKED: Allen Liu APPROVED: WYNEC DRAWN: Y.Liu ERP: 1203003465

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPED-3528SYCK	Super Bright Yellow (AlGaInP)	Water Clear	300	500	40°

- 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	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	I==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	٧	I=20mA
lR	Reverse Current	Super Bright Yellow		10	uA	VR=5V

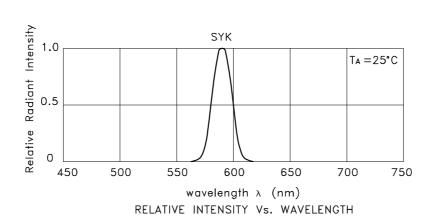
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

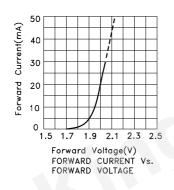
7. 1500 into maximum reasings at 171 20 0					
Parameter	Super Bright Yellow	Units			
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	175	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

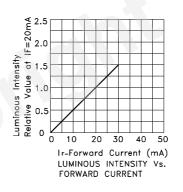
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

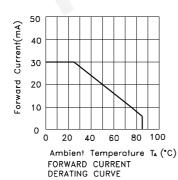
SPEC NO: DSAC2459 **REV NO: V.12B DATE: MAR/18/2013** PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.Liu ERP: 1203003465

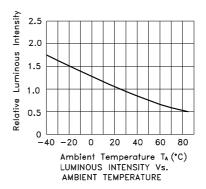


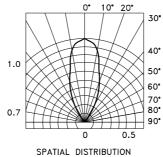
Super Bright Yellow KPED-3528SYCK









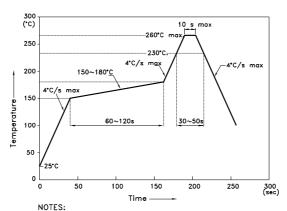


SPEC NO: DSAC2459 REV NO: V.12B DATE: MAR/18/2013 PAGE: 3 OF 5
APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.Liu ERP: 1203003465

KPED-3528SYCK

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.

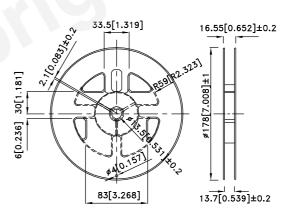
 3.Number of reflow process shall be 2 times or less.

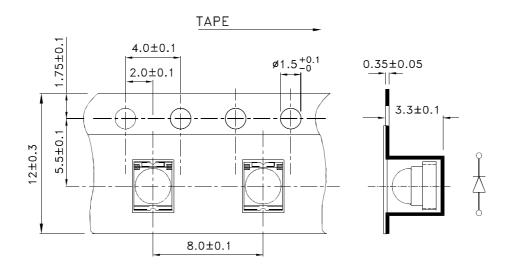
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.5 1.5

Tape Dimensions (Units: mm)

Reel Dimension





SPEC NO: DSAC2459 APPROVED: WYNEC

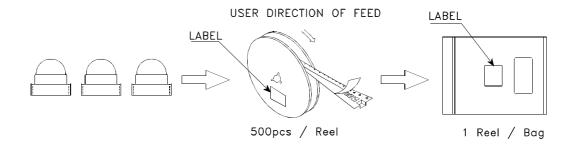
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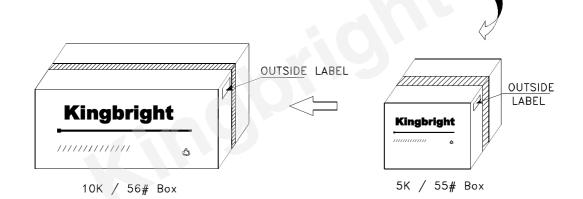
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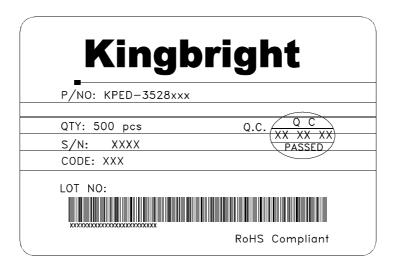
PAGE: 4 OF 5 ERP: 1203003465

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PACKING & LABEL SPECIFICATIONS KPED-3528SYCK







Detailed application notes are listed on our website. http://www.kingbright.com/application notes

SPEC NO: DSAC2459 APPROVED: WYNEC REV NO: V.12B CHECKED: Allen Liu DATE: MAR/18/2013 DRAWN: Y.Liu PAGE: 5 OF 5 ERP: 1203003465