3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: KPT-3216LVSYCK-J3-PRV

Super Bright Yellow

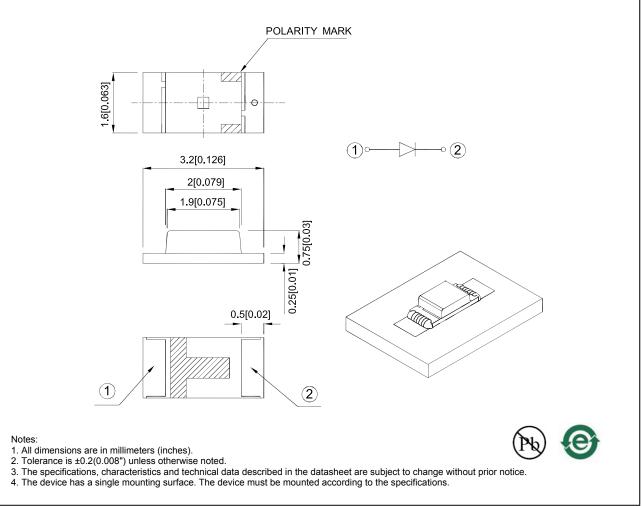
Features

- 3.2mmx1.6mm SMD LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Low current IF=2mA operating.
- RoHS compliant.

Description

The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.

Package Dimensions



SPEC NO: DSAO8305 APPROVED: Wynec REV NO: V.1B CHECKED: Allen Liu DATE: MAY/31/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1203014468

Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]	
			Min.	Тур.	201/2	
KPT-3216LVSYCK-J3-PRV	Super Bright Yellow (AlGaInP)	Water Clear	15	25	140°	

Notes:

1. θ 1/2 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=2mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=2mA
С	Capacitance	Super Bright Yellow	45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Yellow	1.85	2.1	V	IF=2mA
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 CIE127-2007 standards.

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

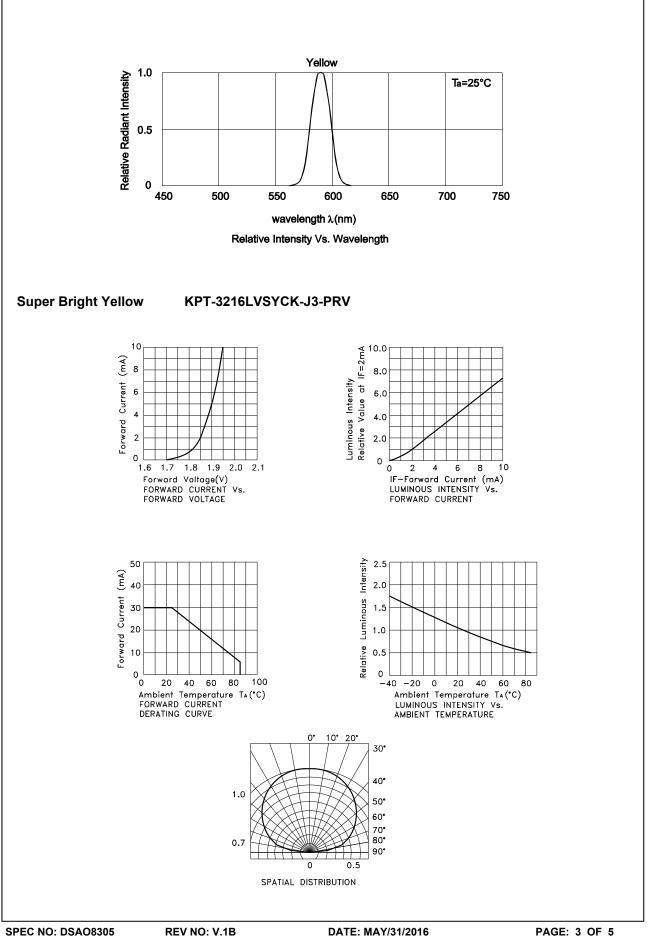
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	63	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

Notes:

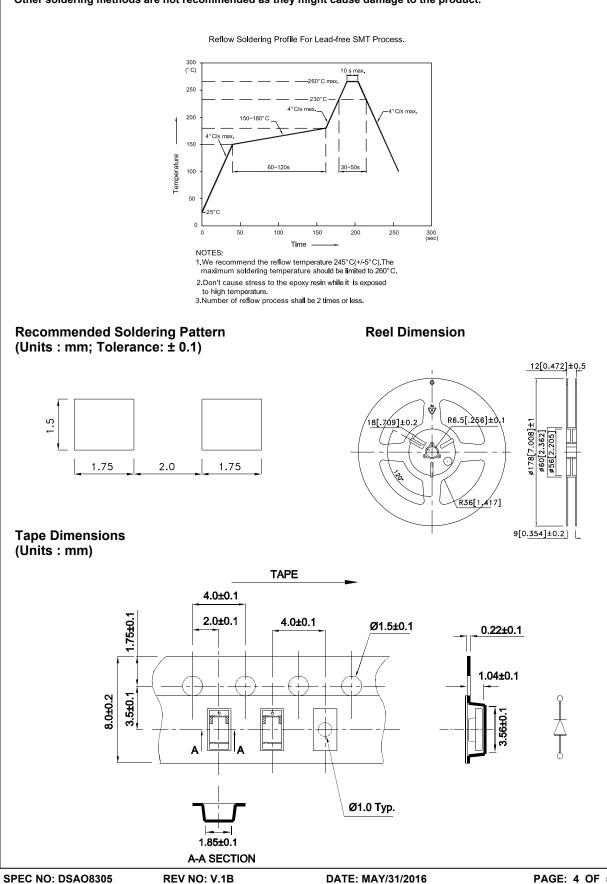
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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.



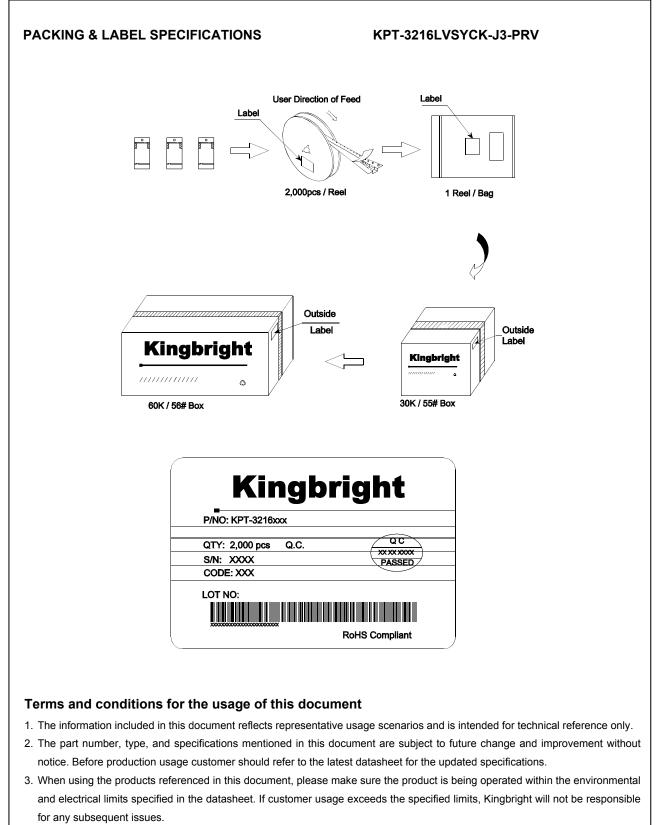
KPT-3216LVSYCK-J3-PRV

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.



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- 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.
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