

3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTL3216SYCK

Super Bright Yellow

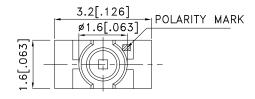
Features

- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

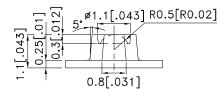
Description

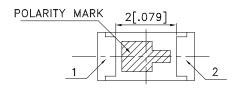
The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

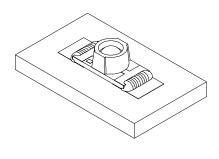
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ 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.





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Selection Guide

Part No.	Dice	lv (mcd) [2] Dice Lens Type @ 20mA		,	Viewing Angle [1]
		2.	Min.	Тур.	201/2
APTL3216SYCK	Super Bright Yellow (AlGaInP)	Water Clear	180	350	70°

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

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	VR=5V			

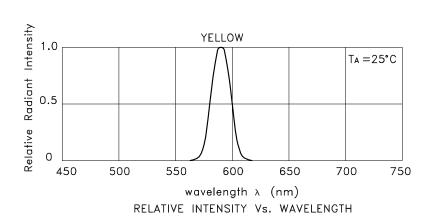
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

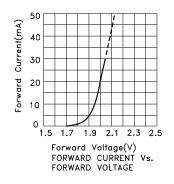
Parameter	Super Bright Yellow	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	175	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

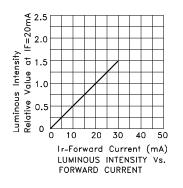
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

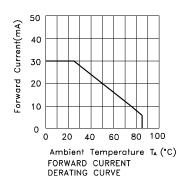
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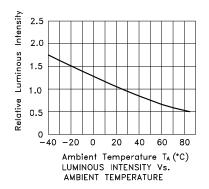


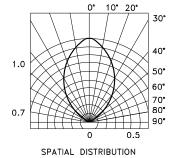
Super Bright Yellow APTL3216SYCK











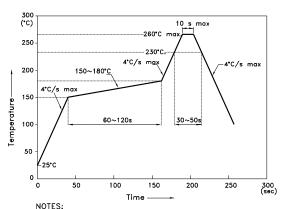
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APTL3216SYCK

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.



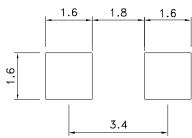
- NOTES:

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

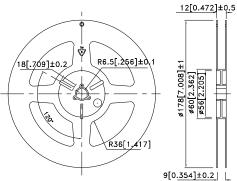
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

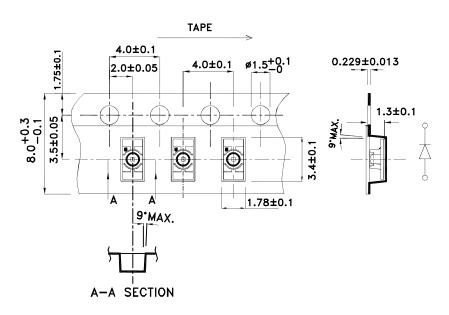
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Reel Dimension

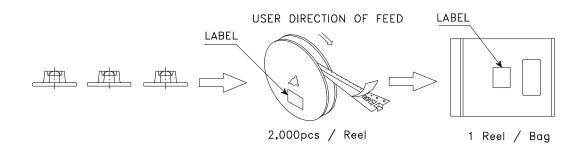


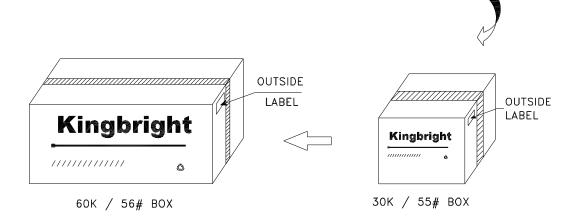
Tape Dimensions (Units : mm)

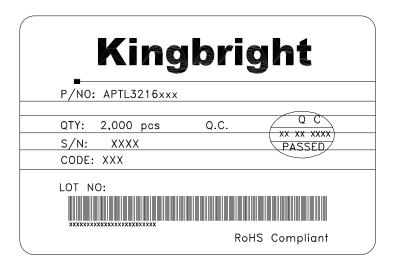


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PACKING & LABEL SPECIFICATIONS APTL3216SYCK







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