

香港至恩科技有限公司

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公司授权代理销售LITE-ON: 光耦, 贴片LED灯等 进口原装,现货供应,价格优势,技术支持 电话: 0755-83464948 传真: 0755-83464076

AP3216SYCK

3.2 x 1.6 mm SMD Chip LED Lamp

DESCRIPTIONS

- The Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip
- · Electrostatic discharge and power surge could damage the LEDs
- It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs
- · All devices, equipments and machineries must be electrically grounded

FEATURES

- 3.2 mm x 1.6 mm SMD LED, 1.1 mm thickness
- Low power consumption
- · Wide viewing angle
- · Ideal for backlight and indicator
- Package: 2000 pcs / reel
- Moisture sensitivity level: 3
- · RoHS compliant

APPLICATIONS

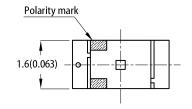
- Backlight
- · Status indicator
- · Home and smart appliances
- · Wearable and portable devices
- · Healthcare applications

ATTENTION

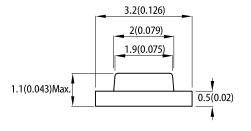
Observe precautions for handling electrostatic discharge sensitive devices

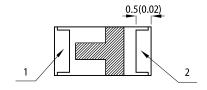


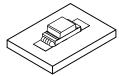
PACKAGE DIMENSIONS





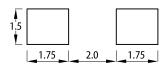






RECOMMENDED SOLDERING PATTERN

(units: mm; tolerance: \pm 0.1)



Notes:

- All dimensions are in millimeters (inches).
 Tolerance is ±0.2(0.0079") unless otherwise noted.
- 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.

SELECTION GUIDE

Part Number	Emitting Color	Lens Type	Iv (mcd) @ 20mA [2]		Viewing Angle [1]
rait Number	(Material)	Lens Type	Min.	Тур.	201/2
AP3216SYCK	Super Bright Yellow (AlGaInP)	Water Clear	80	150	140°

Notes.
1. 61/2 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 CIE127-2007 standards.





ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
Parameter	Symbol	Emitting Color	Тур.	Max.	Unit
Wavelength at Peak Emission I _F = 20mA	λ_{peak}	Super Bright Yellow	590	-	nm
Dominant Wavelength I _F = 20mA	λ _{dom} ^[1]	Super Bright Yellow	590	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 20mA	Δλ	Super Bright Yellow	20	-	nm
Capacitance	С	Super Bright Yellow	20	-	pF
Forward Voltage I _F = 20mA	V _F ^[2]	Super Bright Yellow	2.0	2.5	V
Reverse Current (V _R = 5V)	I _R	Super Bright Yellow	-	10	μΑ

ABSOLUTE MAXIMUM RATINGS at T_A=25°C

ADSOLOTE IIII IXIIII IXIII IXI			
Parameter	Symbol	Value	Unit
Power Dissipation	P _D	75	mW
Reverse Voltage	V _R	5	V
Junction Temperature	T _j	115	°C
Operating Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T_{stg}	-40 to +85	°C
DC Forward Current	I _F	30	mA
Peak Forward Current	I _{FM} ^[1]	175	mA
Electrostatic Discharge Threshold (HBM)	-	3000	V

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 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.



Notes:

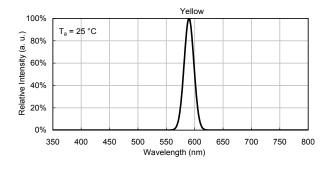
1. The dominant wavelength (\(\lambda\d)\) above is the setup value of the sorting machine. (Tolerance \(\lambda\d:\pm\d:\pm\nn)

2. Forward voltage: \(\pm\d:\p

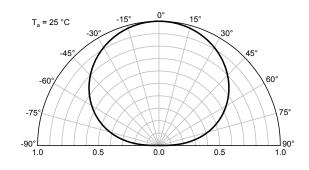


TECHNICAL DATA

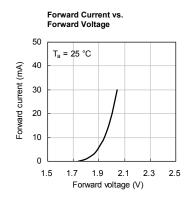
RELATIVE INTENSITY vs. WAVELENGTH

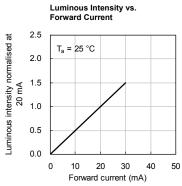


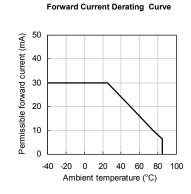
SPATIAL DISTRIBUTION

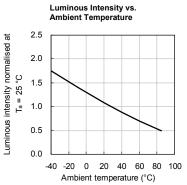


SUPER BRIGHT YELLOW

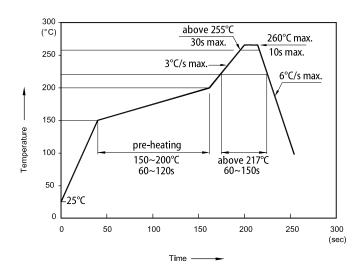








REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS



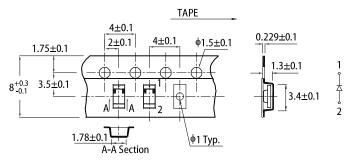
Notes

- 1. Don't cause stress to the LEDs while it is exposed to high temperature.

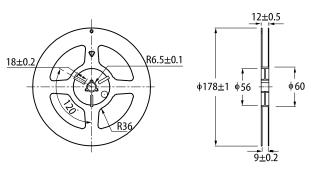
 2. The maximum number of reflow soldering passes is 2 times.

 3. Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product.

TAPE SPECIFICATIONS (units: mm)

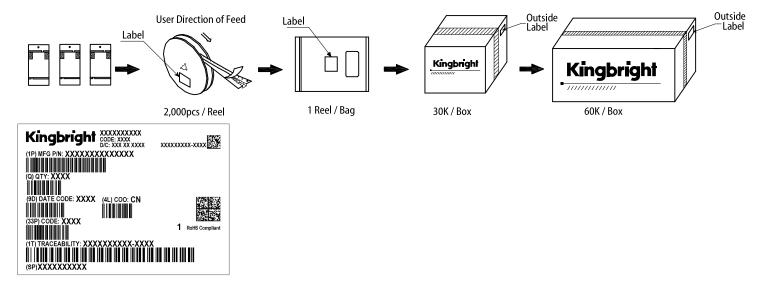


REEL DIMENSION (units: mm)





PACKING & LABEL SPECIFICATIONS



- The information included in this document reflects representative usage scenarios and is intended for technical reference only.

 The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.

 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
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