

3.2x2.4mm SMD CHIP LED LAMP

Part Number: APD3224QBC/D-F01

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC

DISCHARGE SENSITIVE **DEVICES**

Features

• 3.2x2.4mm SMT LED, 2.4mm thickness.

Low power consumption.

Ideal for backlight and indicator.

• Package: 1500pcs / reel.

• Moisture sensitivity level : level 3.

RoHS compliant.

Descriptions

• The Blue source color devices are made with InGaN Light Emitting Diode.

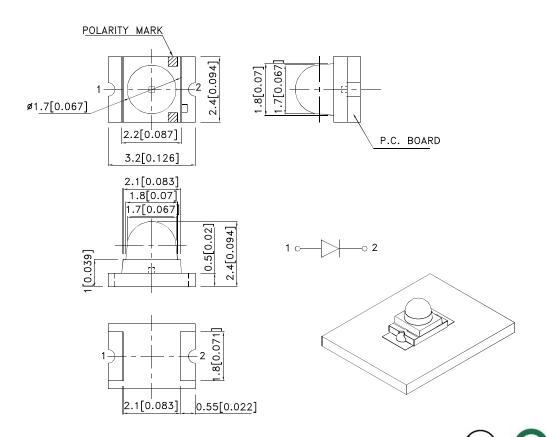
Blue

• Electrostatic discharge and power surge could damage the LEDs.

• It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.

• All devices, equipments and machineries must be electrically grounded.

Package Dimensions



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

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
APD3224QBC/D-F01	Blue (InGaN)	Water Clear	400	800	20°

Notes:

- 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	Blue	460		nm	I==20mA
λD [1]	Dominant Wavelength	Blue	465		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	4	V	IF=20mA
lr	Reverse Current	Blue		50	uA	V _R =5V

Notes:

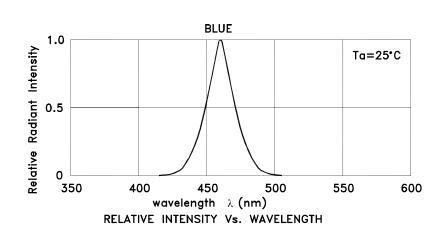
- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

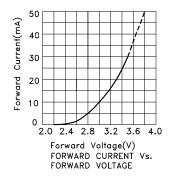
Parameter	Blue	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

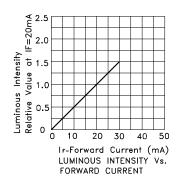
Note: 1.1/10 Duty Cycle, 0.1ms Pulse Width.

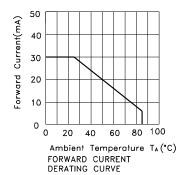
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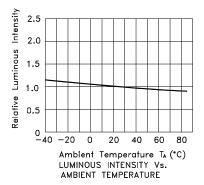


Blue APD3224QBC/D-F01



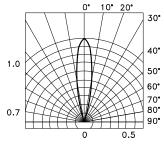






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SPATIAL DISTRIBUTION

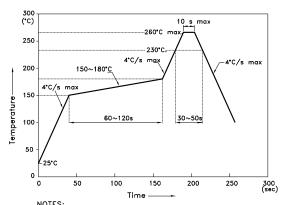
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



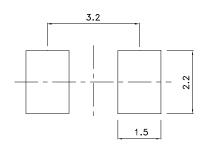
- NOTES:

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

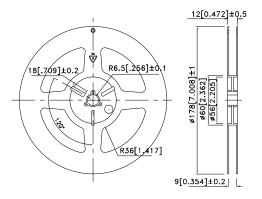
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 - to high temperature.

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

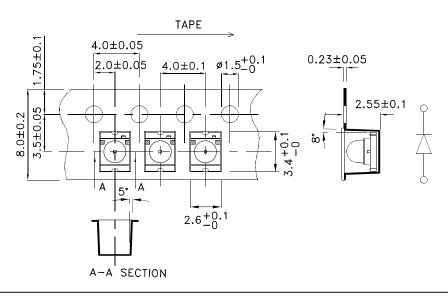
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



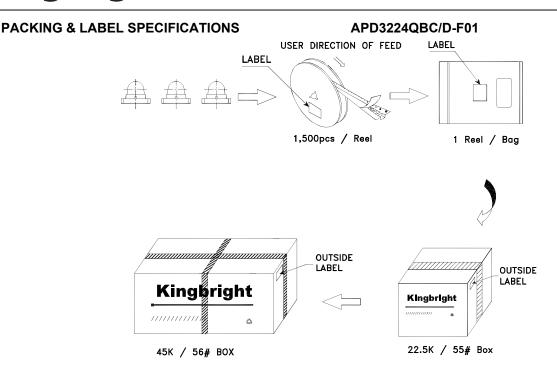
Reel Dimension

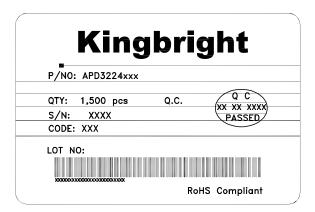


Tape Dimensions (Units : mm)



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AMEYA360 Components Supply Platform

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