3.2x2.4mm SMD CHIP LED LAMP

PRELIMINARY SPEC



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part Number: APD3224QBC/F-F01 Blue

Features

- 3.2x2.4mm SMT LED, 2.4mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 1500pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

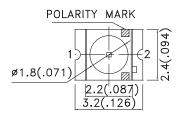
The Blue source color devices are made with InGaN Light Emitting Diode.

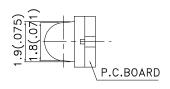
Static electricity and surge damage the LEDS.

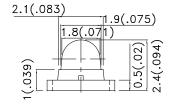
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

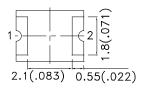
All devices, equipment and machinery must be electrically grounded.

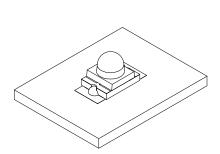
Package Dimensions











Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- Specifications are subject to change without notice.
- 4. The device has a single mounting surface. The device must be mounted according to the specifications.





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 REV NO: V.1
 DATE: OCT/30/2009
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 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: Q.Q.Zhu
 ERP: 1203010139

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] Dice Lens Type @ 20mA		,	Viewing Angle [1]
		2.	Min.	Тур.	201/2	
APD3224QBC/F-F01	Blue (InGaN)	WATER CLEAR	480	1200	20°	

- 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%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions			
λpeak	Peak Wavelength	Blue	461		nm	IF=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	V _F =0V;f=1MHz			
VF [2]	Forward Voltage	Blue	3.3	4	V	IF=20mA			
lr	Reverse Current	Blue		10	uA	V _R =5V			

Notes:

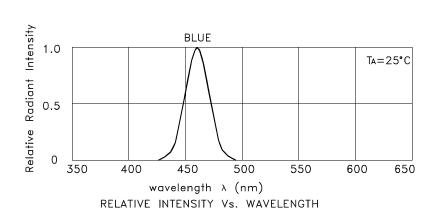
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

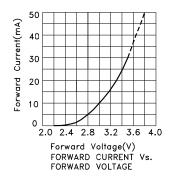
Abbolato maximum ratings at 177 20 0					
Parameter	Blue	Units			
Power dissipation	120	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

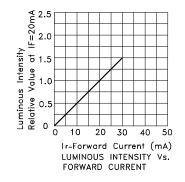
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

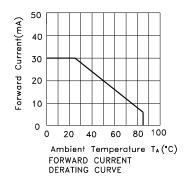
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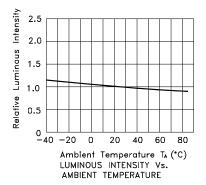


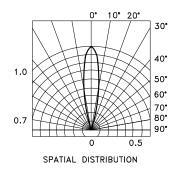
Blue APD3224QBC/F-F01











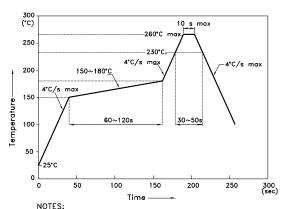
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APD3224QBC/F-F01

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.



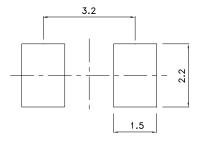
- NOTES:

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

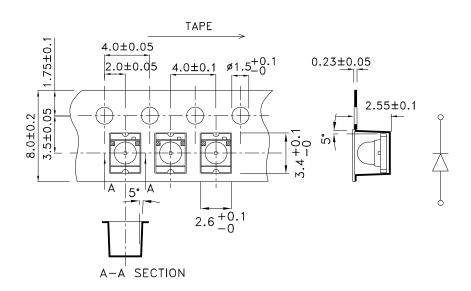
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

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

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



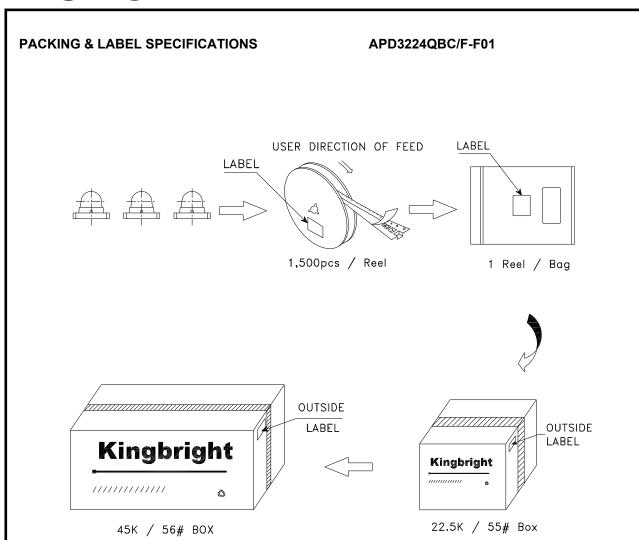
Tape Dimensions (Units: mm)



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