Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Kingbright
AA3020APBC/A

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Kingbright: Excellent Integrated System Limited

Datasheet of AA3020APBC/A - LED BLUE CLEAR 2SMD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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3.0x2.0mm SURFACE MOUNT LED LAMP

Blue

PRELIMINARY SPEC



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part Number: AA3020APBC/A

Features

- 3.0mm x 2.0mm, 1.4mm high, only minimum space required.
- Suitable for compact optoelectronic applications.
- Low power consumption.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

Description

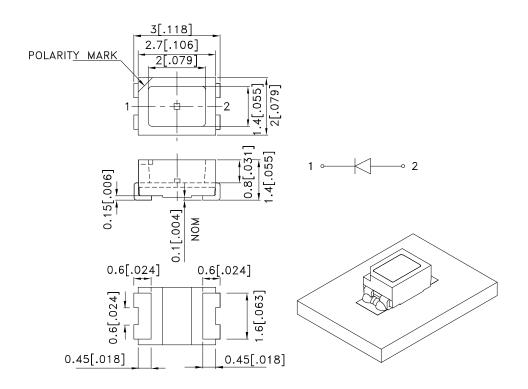
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25 (0.01")$ unless otherwise noted.
- 3. 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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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
AA3020APBC/A	Blue (InGaN)	WATER CLEAR	18	60	90°

- Notes: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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	468		nm	I==20mA
λD [1]	Dominant Wavelength	Blue	470		nm	I=20mA
Δλ1/2	Spectral Line Half-width	Blue	21		nm	I=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	4	V	I=20mA
lr	Reverse Current	Blue		10	uA	V _R =5V

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

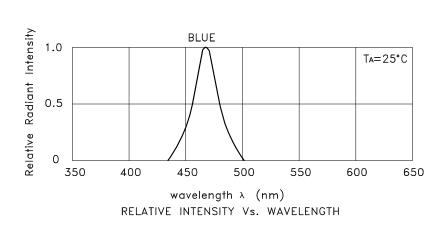
Absolute Maximum Ratings at TA=25°C

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arameter Blue		Units				
Power dissipation	120	mW				
DC Forward Current	30	mA				
Peak Forward Current [1]	100	mA				
Reverse Voltage	5	V				
Operating Temperature	-40°C To +85°C					
Storage Temperature	-40°C To +85°C					

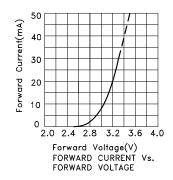
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

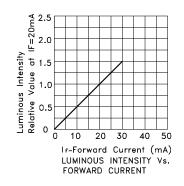
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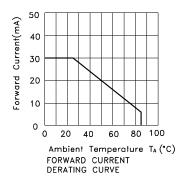


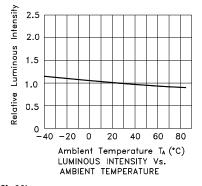


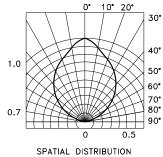
Blue AA3020APBC/A











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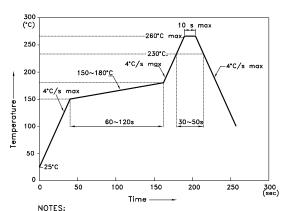
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AA3020APBC/A

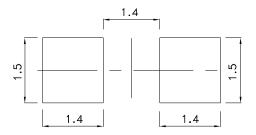
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.

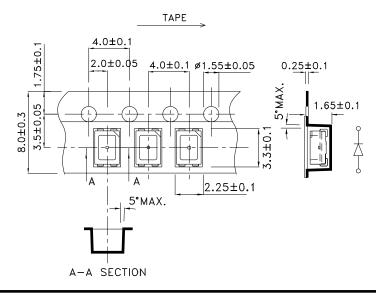


1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
3.Number of reflow process shall be 2 times or less.

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



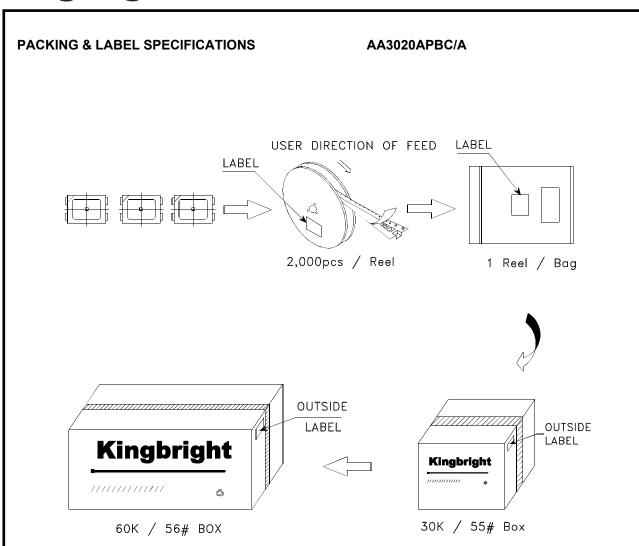
Tape Dimensions (Units : mm)

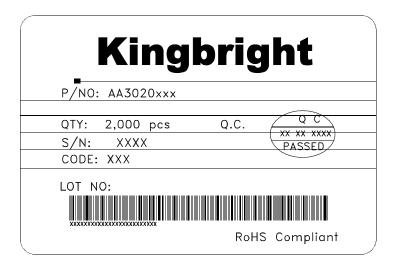


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