

### **Excellent Integrated System Limited**

Stocking Distributor

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

Kingbright APA2107LVBC/D

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



PRELIMINARY SPEC

• Low power consumption.

• Package: 2000pcs / reel.

• Ideal for backlight and indicator.

Moisture sensitivity level : level 3.

Low current IF=2mA operating.

• Tinned pads for improved solderability.

Wide viewing angle.

RoHS compliant.

**Features** 

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

• 2.1mmX0.6mm right angle SMT LED, 1.0mm thickness.

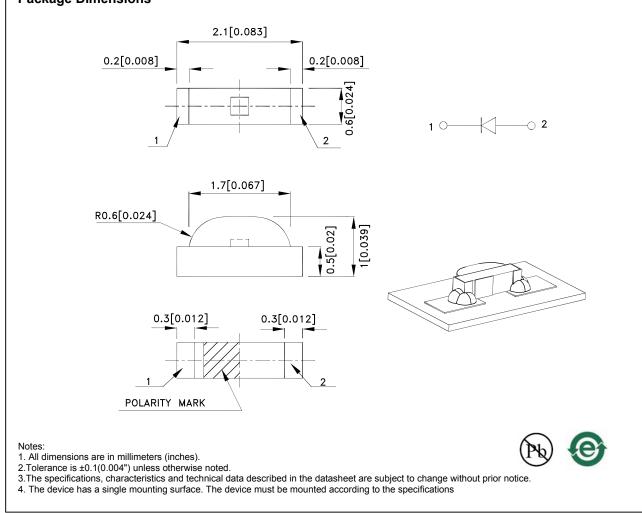
### 2.1x0.6mm RIGHT ANGLE SURFACE LED LAMP

Part Number: APA2107LVBC/D Blue

#### Descriptions

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



#### SPEC NO: DSAN8378



#### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
APA2107LVBC/D	Blue (InGaN)	Water Clear	10	20	120°

Notes:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity luminous Flux: +/-15%.
Luminous Intensity value is traceable to the CIE127-2007 compliant national standards.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue		465		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Blue		470		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Blue		22		nm	IF=2mA
С	Capacitance	Blue		100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	2.2	2.65	3	V	IF=2mA
IR	Reverse Current	Blue			50	uA	VR=5V

Notes:

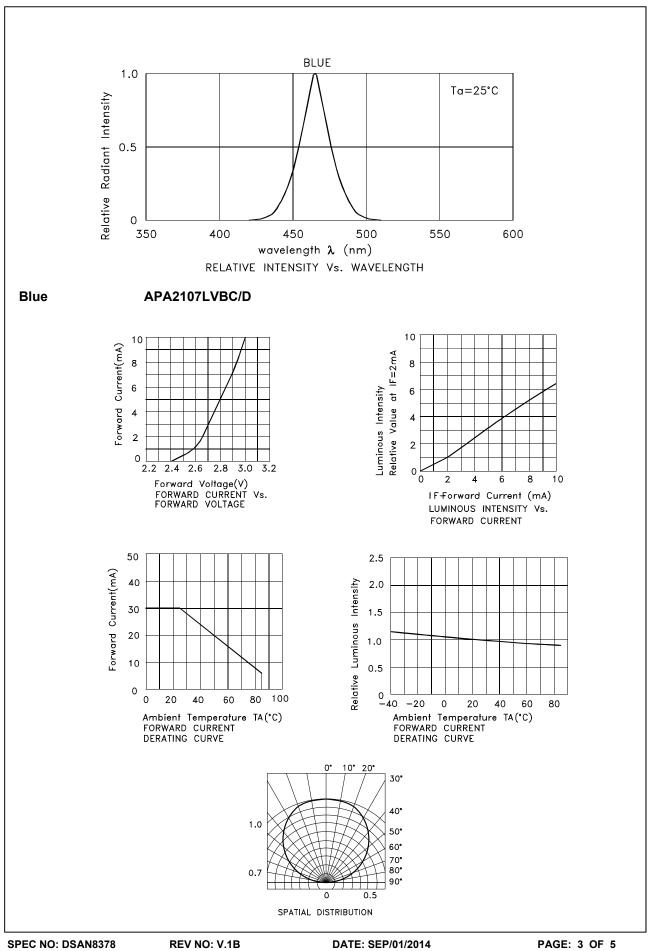
1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V. 3.Wavelength value is traceable to the CIE127-2007 compliant national standards. 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

#### Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units	
Power dissipation	90	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		

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



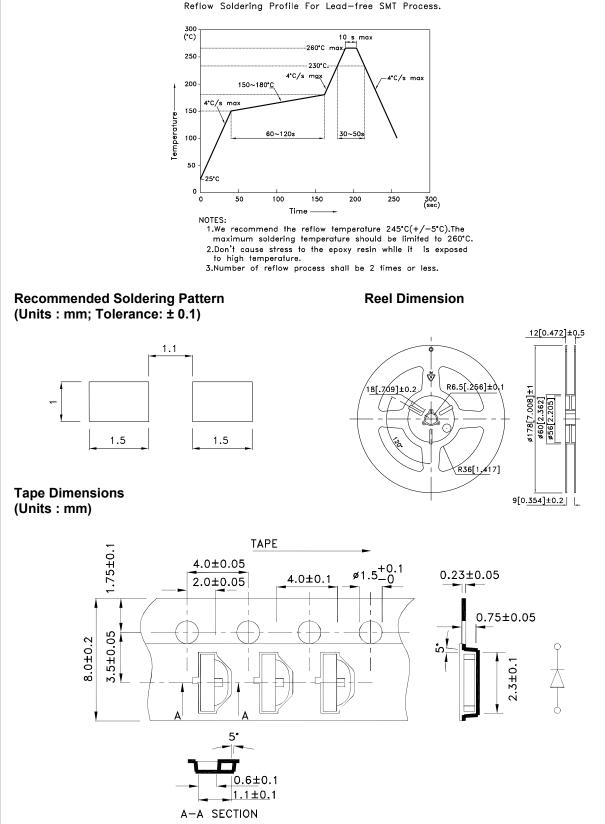




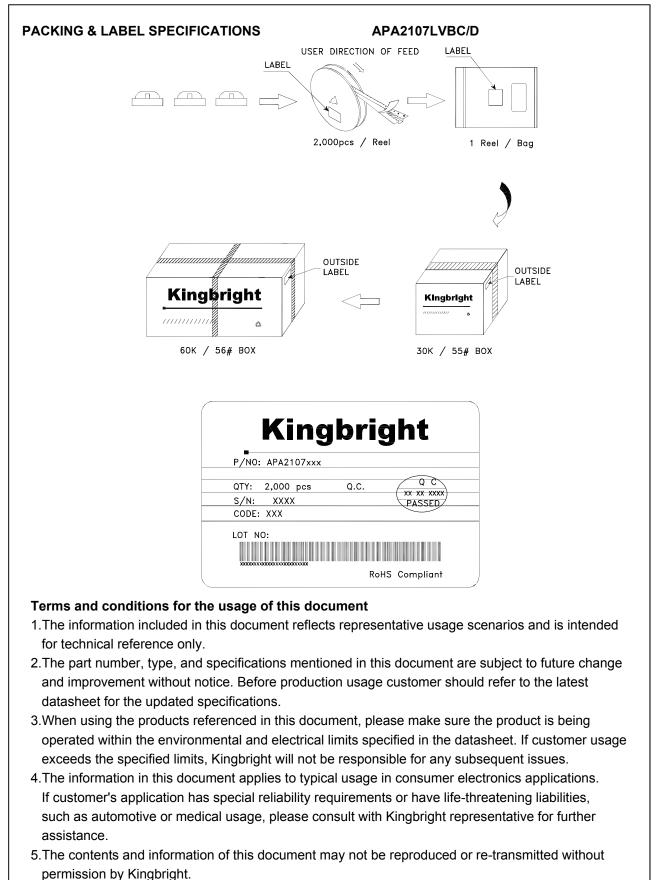
#### APA2107LVBC/D

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.







6.All design applications should refer to Kingbright application notes available at <a href="http://www.KingbrightUSA.com/ApplicationNotes">http://www.KingbrightUSA.com/ApplicationNotes</a>

SPEC NO: DSAN8378	REV NO: V.1B