

PRELIMINARY SPEC

Part Number: AA1114/2PBCA/CC

BLUE



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- LOW POWER CONSUMPTION.
- IDEAL FOR BACKLIGHTING.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

Description

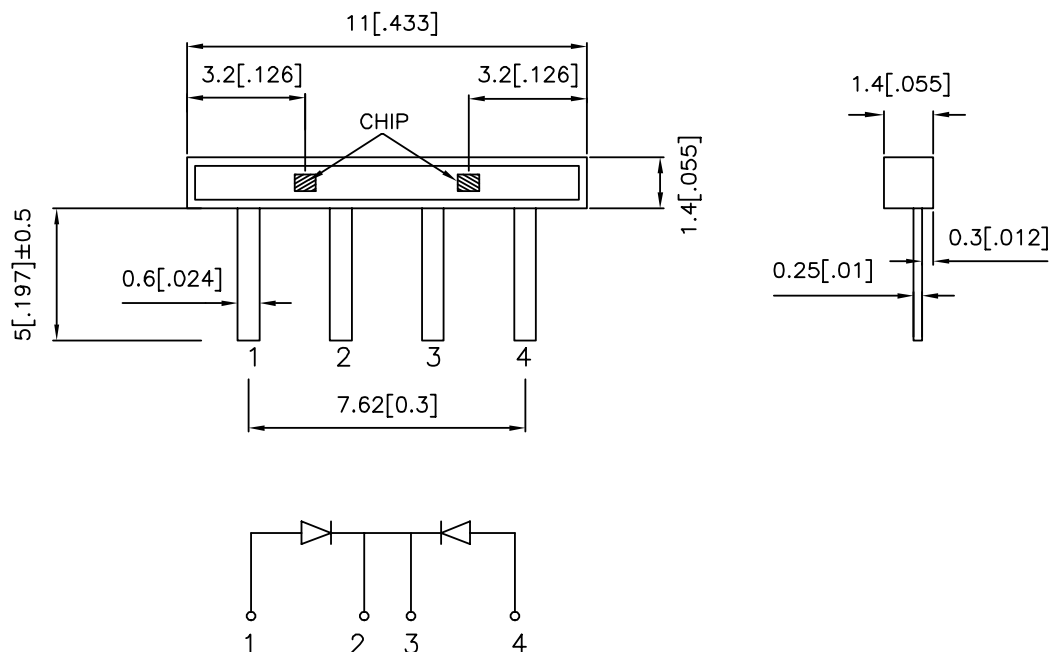
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
AA1114/2PBCA/CC	BLUE (InGaN)	WATER CLEAR	18	50	120°

Notes:

1.θ1/2 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	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Blue	468		nm	IF=20mA
λ_D [1]	Dominant Wavelength	Blue	470		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Blue	21		nm	IF=20mA
C	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.3	3.8	V	IF=20mA
IR	Reverse Current	Blue		10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm

2.Forward Voltage: +/-0.1V

Absolute Maximum Ratings at TA=25°C

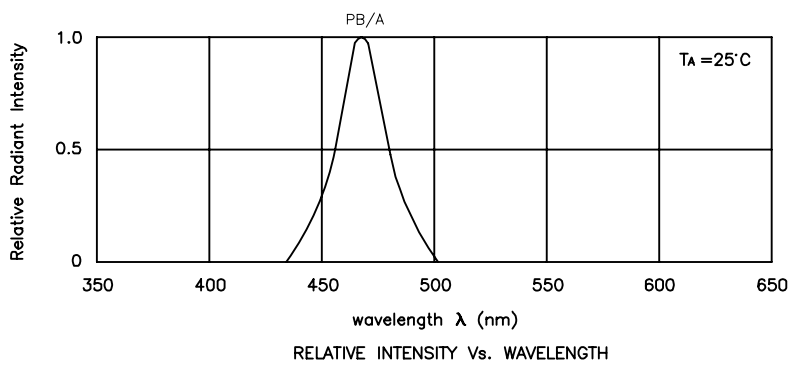
Parameter	Blue	Units
Power dissipation	114	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:

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

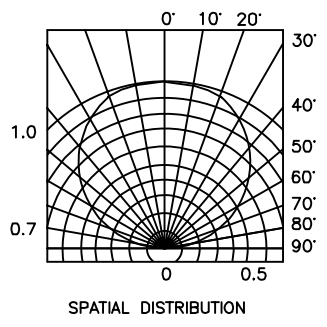
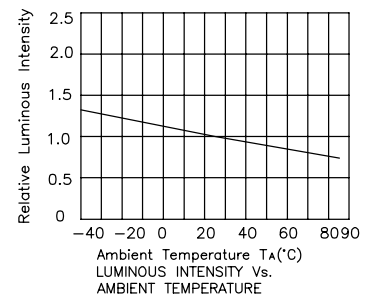
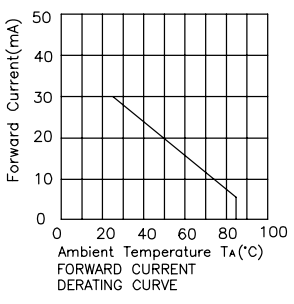
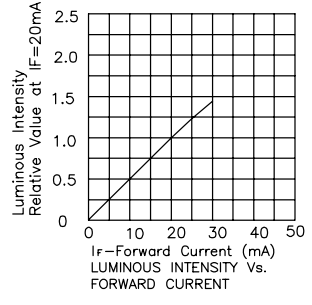
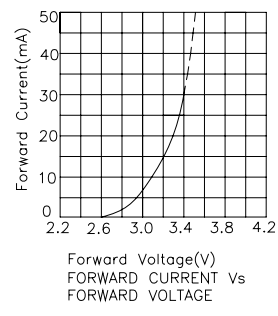
2. 2mm below package base.

3. 5mm below package base.



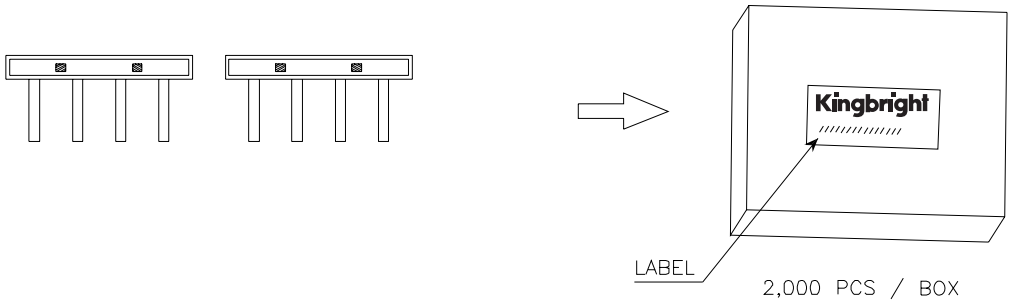
BLUE

AA1114/2PBCA/CC



PACKING & LABEL SPECIFICATIONS

AA1114/2PBCA/CC



Kingbright	
P/NO: AA1114/2XXX	
QTY: 2,000 pcs	Q.C. QC xx xx xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO: 	
RoHS Compliant	

