

Excellent Integrated System Limited

Stocking Distributor

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

[Kingbright](#)
[AA3528APR2C/A](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

Kingbright

3.5x2.8mm SURFACE MOUNT LED LAMP

PRELIMINARY SPEC

Part Number: AA3528APR2C/A

PINK



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 1500PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.

Description

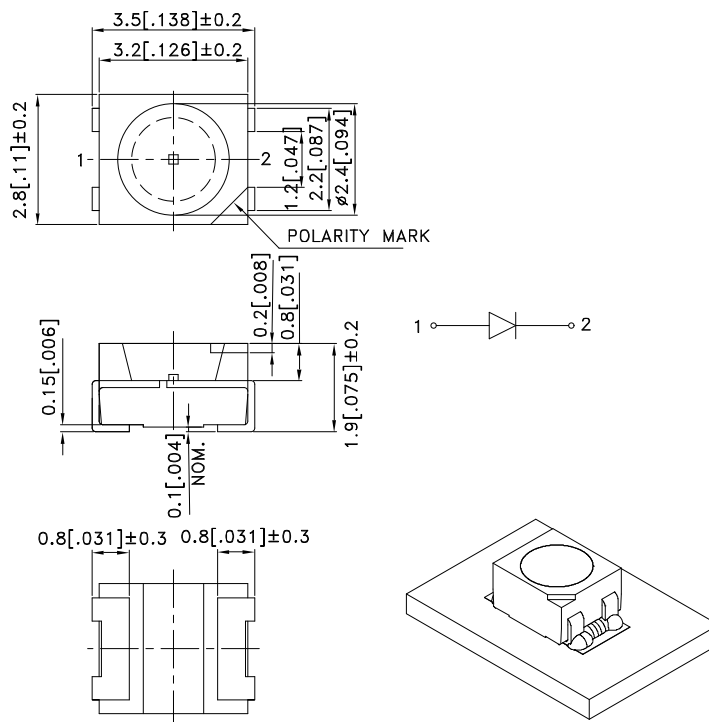
The Pink source color devices are made with InGaN on SiC Light Emitting Diode.

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.



Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
AA3528APR2C/A	PINK (InGaN)	WATER CLEAR	180	290	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
V _F [1]	Forward Voltage	Pink	3.2	4.0	V	I _F =20mA
I _R	Reverse Current	Pink		10	uA	V _R = 5V
X[2]	Chromaticity Coordinates	Pink	0.33			
Y[2]			0.20			
C	Capacitance	Pink	100		pF	V _F =0V;f=1MHz

Notes:

- 1.Forward Voltage: +/-0.1V.
2. Measurement tolerance of the chromaticity coordinates is ±0.01

Absolute Maximum Ratings at TA=25°C

Parameter	Pink	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	

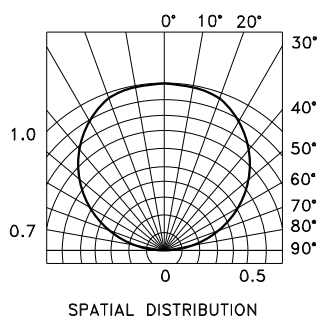
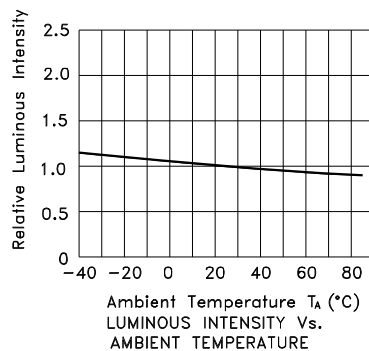
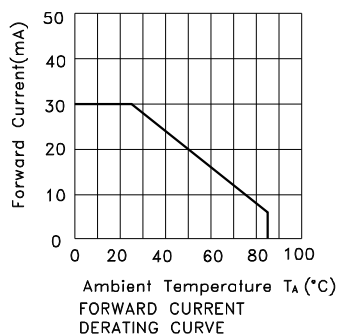
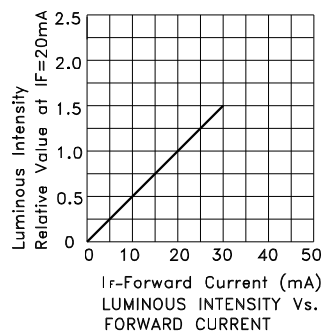
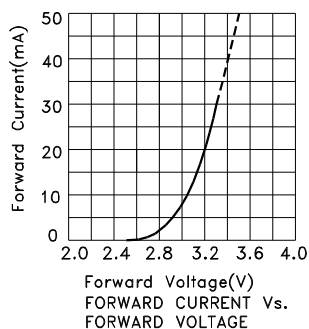
Note:

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

Kingbright

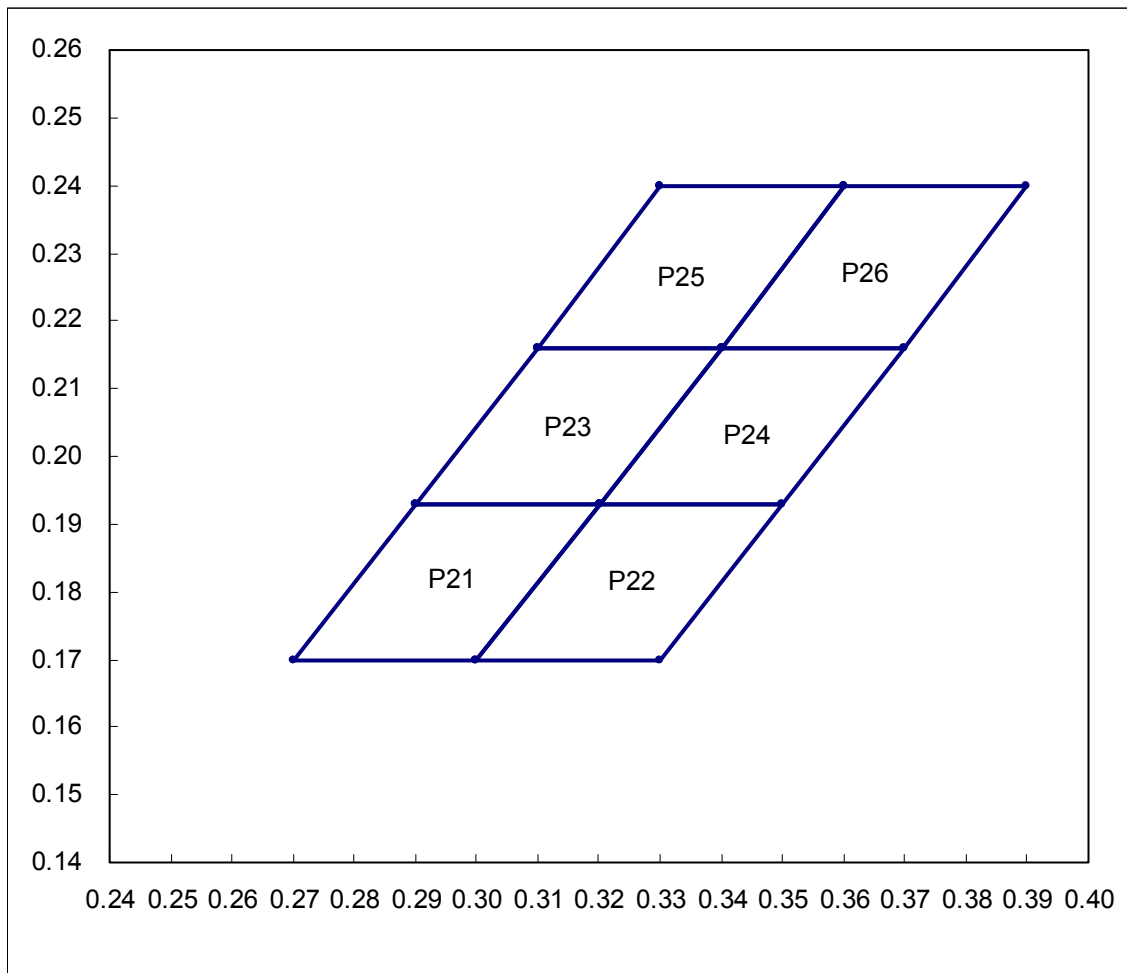
Pink

AA3528APR2C/A



Kingbright

AA3528APR2C/A



P21				
X	0.330	0.360	0.340	0.310
Y	0.240	0.240	0.216	0.216

P22				
X	0.310	0.340	0.320	0.290
Y	0.216	0.216	0.193	0.193

P23				
X	0.290	0.320	0.300	0.270
Y	0.193	0.193	0.170	0.170

P24				
X	0.360	0.390	0.370	0.340
Y	0.240	0.240	0.216	0.216

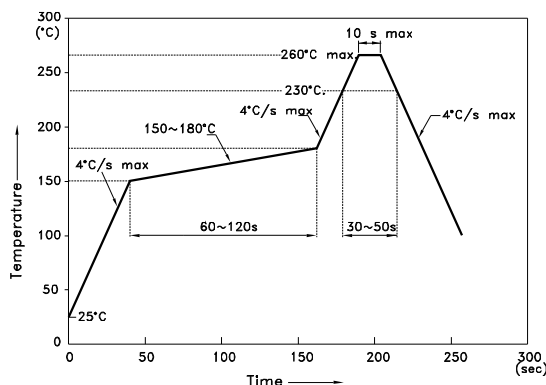
P25				
X	0.340	0.370	0.350	0.320
Y	0.216	0.216	0.193	0.193

P26				
X	0.320	0.350	0.330	0.300
Y	0.193	0.193	0.170	0.170

Kingbright

AA3528APR2C/A

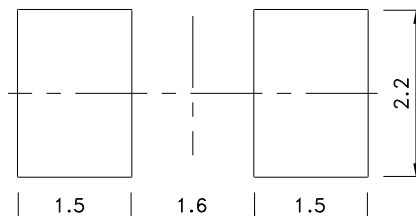
Reflow Soldering Profile For Lead-free SMT Process.



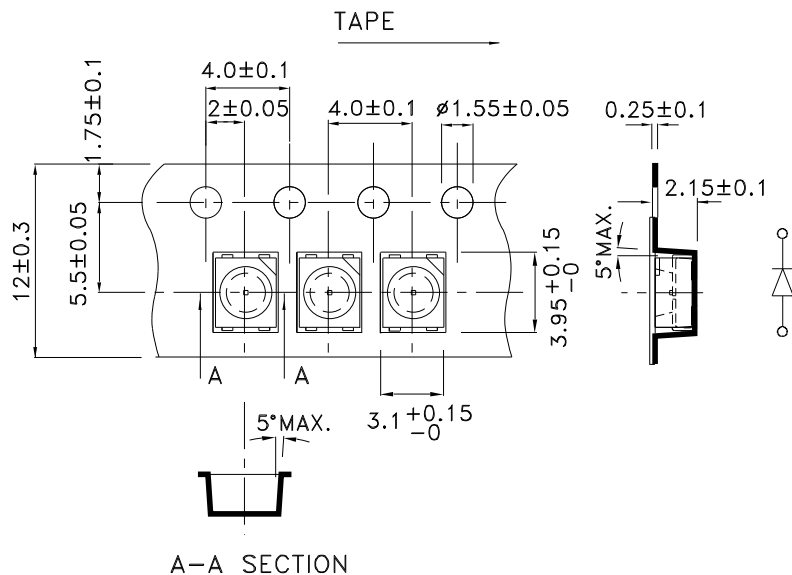
NOTES:

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

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



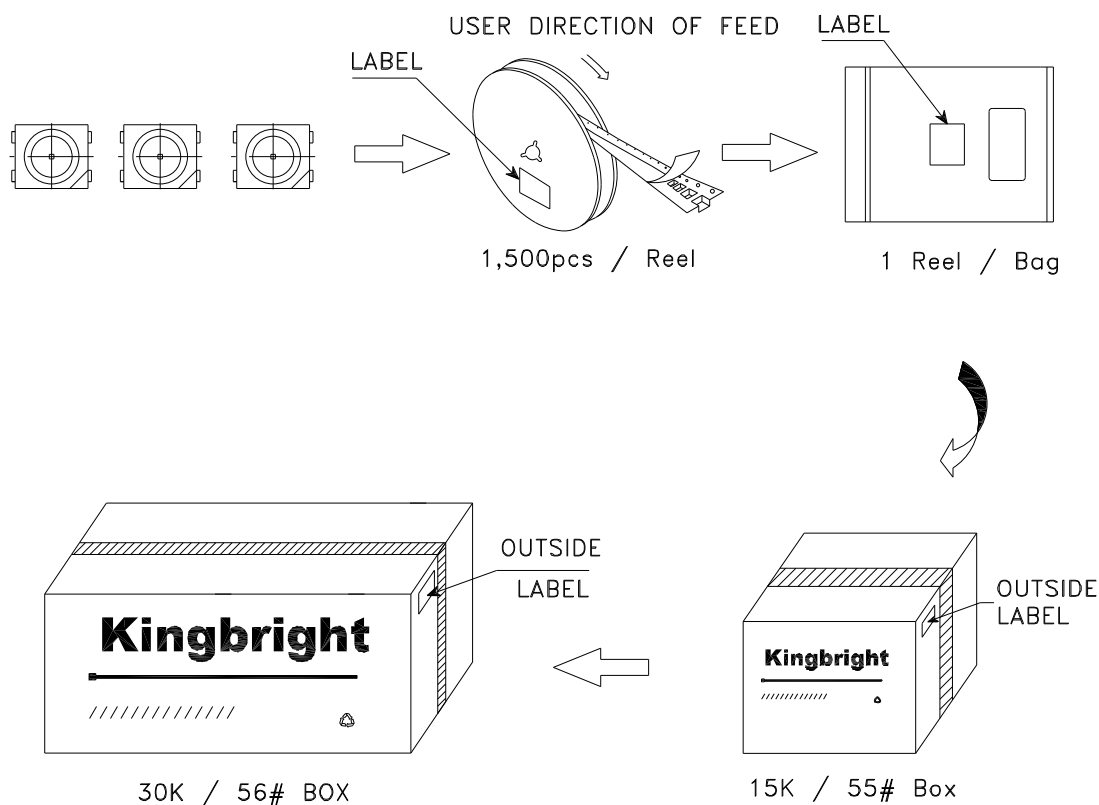
Tape Specifications (Units : mm)




Kingbright

PACKING & LABEL SPECIFICATIONS

AA3528APR2C/A



Kingbright	
P/NO: AA3528Axxx	
QTY: 1,500 pcs	Q.C. Q C xx xx xxxx PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	