

Kingbright

3.5x2.8 mm SMD CHIP LED LAMP



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

AA3528PWC/J

WHITE

PRELIMINARY SPEC

Features

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

Description

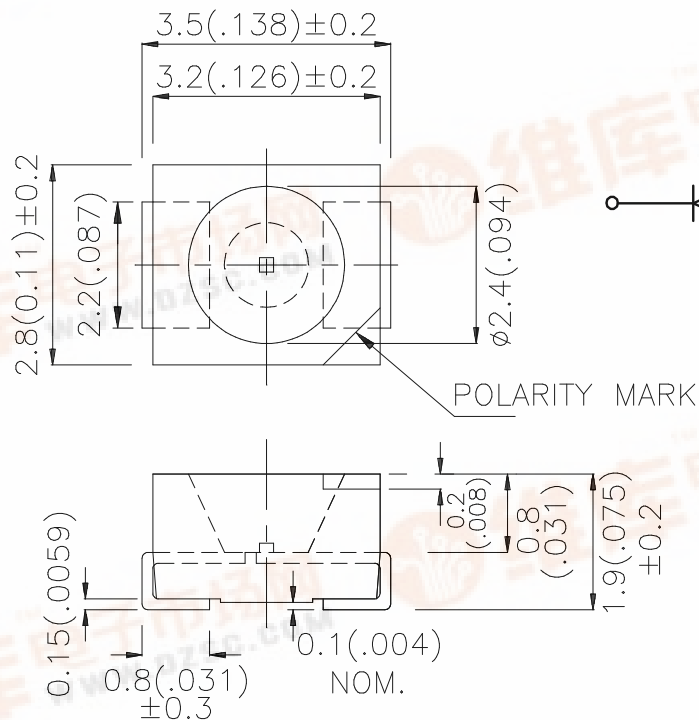
The source color devices are made with InGaN on SiC Light Emitting Diode.

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.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
AA3528PWC/J	WHITE (InGaN)	WATER CLEAR	380	800	120°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
VF	Forward Voltage	White	3.2	4.0	V	IF=20mA
IR	Reverse Current	White		10	uA	VR = 5V
X	Chromaticity Coordinates	White	0.33			
Y			0.34			
C	Capacitance	White	110		pF	VF=0V;f=1MHz

Absolute Maximum Ratings at TA=25°C

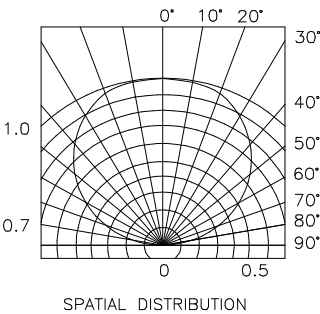
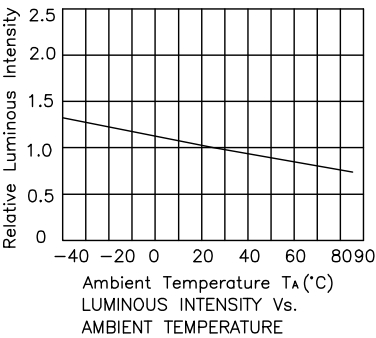
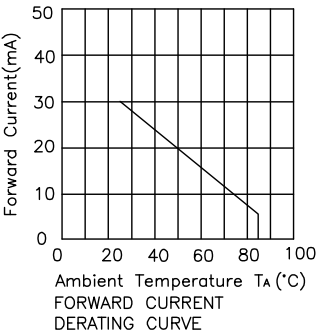
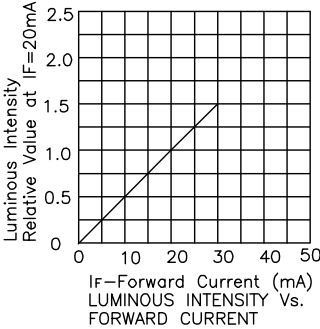
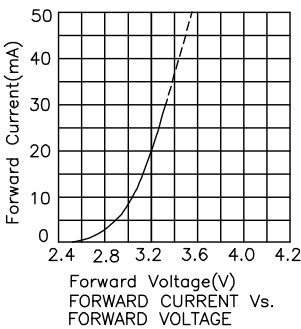
Parameter	White	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Notes:

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

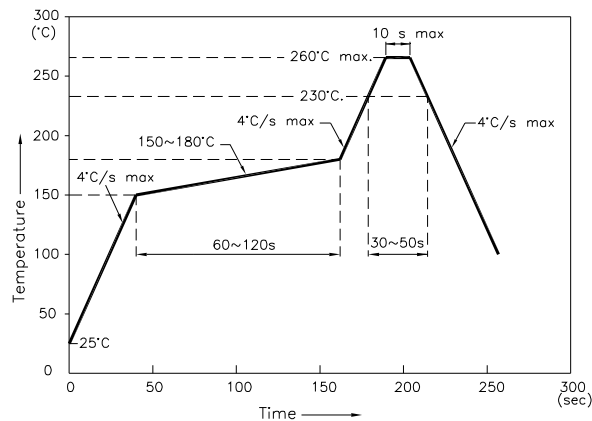
White

AA3528PWC/J



AA3528PWC/J

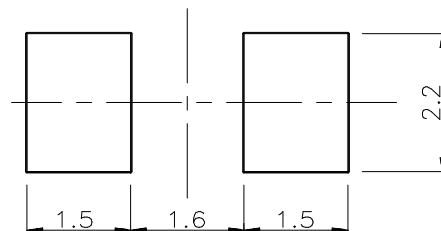
Reflow Soldering Profile For Lead-free SMT Process.



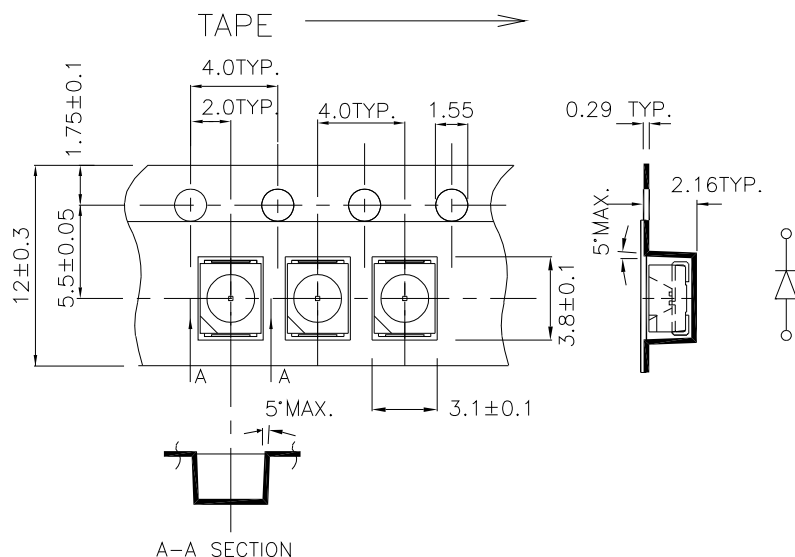
NOTES:

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)

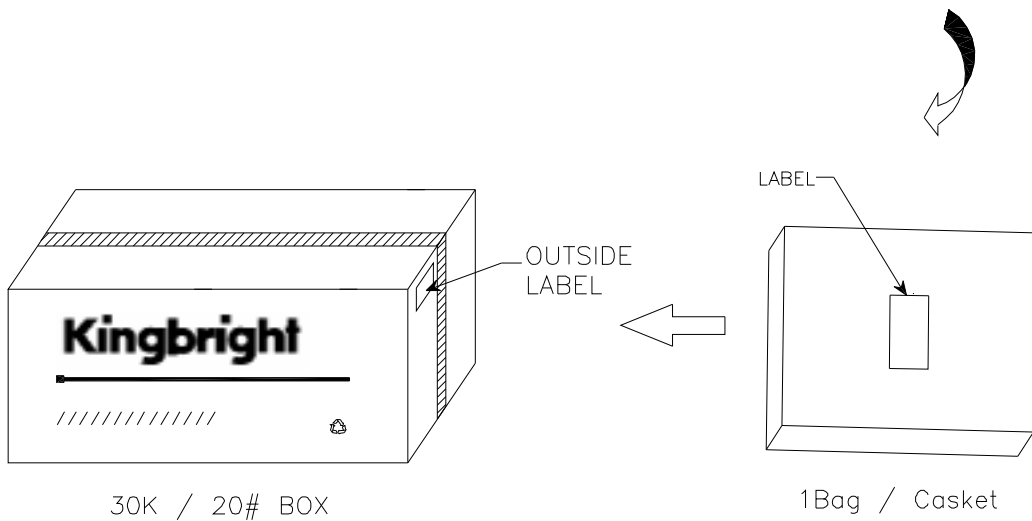
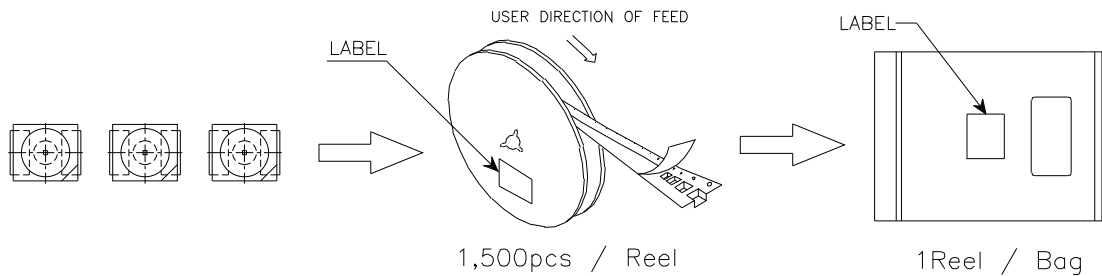


Tape Specifications (Units : mm)



PACKING & LABEL SPECIFICATIONS

AA3528PWC/J



Kingbright				
P/NO: AA3528xxx				
QTY: 1,500 pcs	Q.C. <table border="1"><tr><td>Q C</td></tr><tr><td>xx xx xx</td></tr><tr><td>PASSED</td></tr></table>	Q C	xx xx xx	PASSED
Q C				
xx xx xx				
PASSED				
S/N: XXXX				
CODE: XXX				
LOT NO:				
				
RoHS Compliant				

Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or chromaticity), the typical accuracy of the sorting process is as follows:

1. Chromaticity Coordinates X, Y: ± 0.02
2. Luminous Intensity: $\pm 15\%$
3. Forward Voltage: $\pm 0.1V$

Note: Accuracy may depend on the sorting parameters.