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Kingbright

3.5x2.8mm SURFACE MOUNT LED LAMP

Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE

DEVICES

Part Number: AA3528ZGC/G

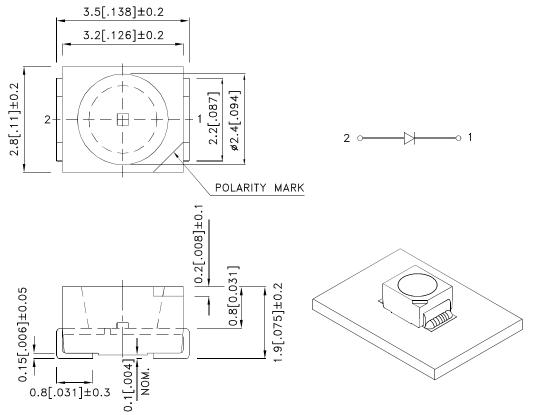
Features

- Single color.
- Suitable for all SMD assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Descriptions

- The Green 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



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice. 4.The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAK0925 **REV NO: V.4B** DATE: APR/25/2016 PAGE: 1 OF 5 **APPROVED: Wynec CHECKED: Allen Liu DRAWN: J.L.Liang** ERP: 1201005407



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
AA3528ZGC/G Green (InGaN)		Water Clear	1000 1400		120°

Notes:

- 1. θ 1/2 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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	520		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	35		nm	IF=20mA
С	Capacitance	Green	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	3.2	4	V	I=20mA
lR	Reverse Current	Green		50	uA	V _R =5V

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

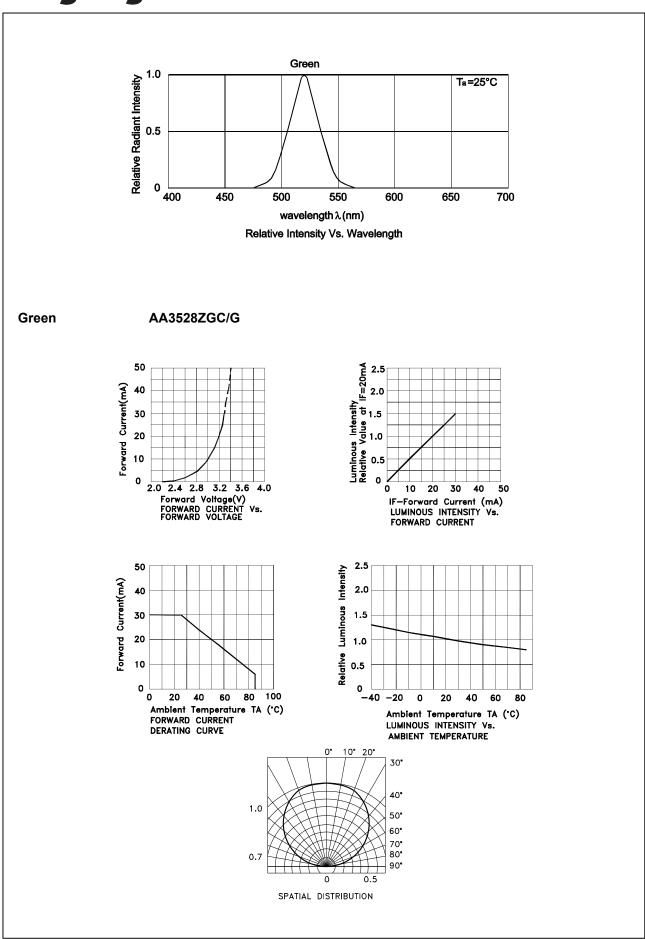
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Electrostatic Discharge Threshold (HBM)	450	V		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

- Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

SPEC NO: DSAK0925 **REV NO: V.4B** DATE: APR/25/2016 PAGE: 2 OF 5 **APPROVED: Wynec CHECKED: Allen Liu DRAWN: J.L.Liang** ERP: 1201005407

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 SPEC NO: DSAK0925
 REV NO: V.4B
 DATE: APR/25/2016
 PAGE: 3 OF 5

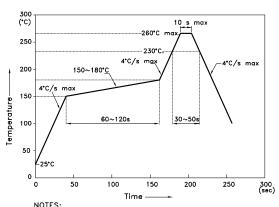
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AA3528ZGC/G

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.

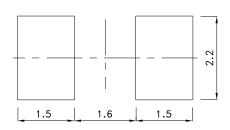


NOTES: 1.We recommend the reflow temperature 245°C(\pm /-5°C).The maximum soldering temperature should be limited to 260°C.

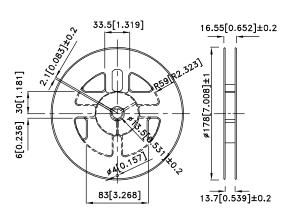
2.Don't cause stress to the epoxy resin while it is exposed to high temperature. to high temperature.

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

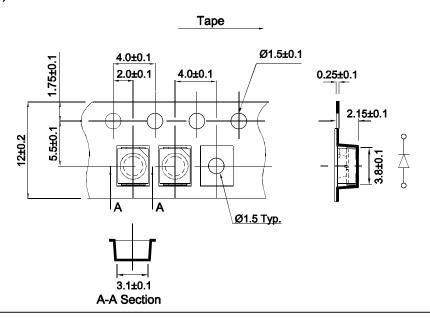
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Reel Dimension



Tape Dimensions (Units: mm)



SPEC NO: DSAK0925 **APPROVED: Wynec**

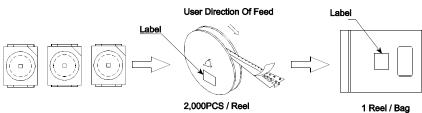
REV NO: V.4B CHECKED: Allen Liu DATE: APR/25/2016 DRAWN: J.L.Liang

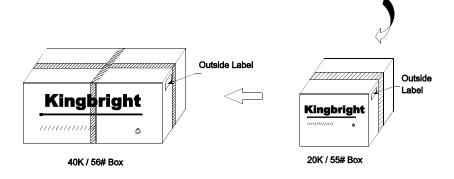
PAGE: 4 OF 5 ERP: 1201005407

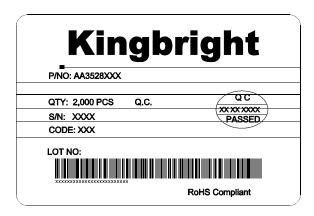
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PACKING & LABEL SPECIFICATIONS

AA3528ZGC/G







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SPEC NO: DSAK0925 **REV NO: V.4B** DATE: APR/25/2016 PAGE: 5 OF 5 DRAWN: J.L.Liang **APPROVED: Wynec CHECKED: Allen Liu** ERP: 1201005407