

3.5x2.8mm SURFACE MOUNT LED LAMP

Pink

Part Number: AA3528VRVCS/A



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 3.
- RoHS compliant.

Description

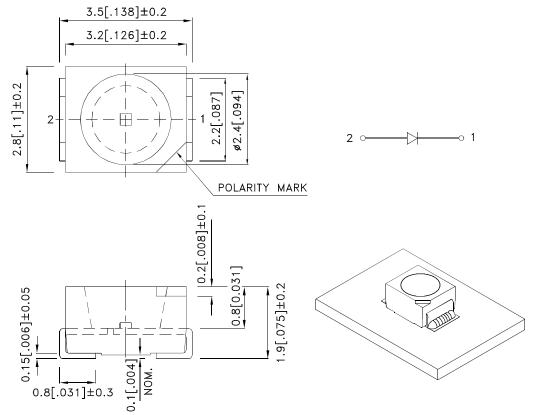
The source color devices are made with InGaN Light Emitting Diode.

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



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ 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.

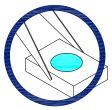
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Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force.

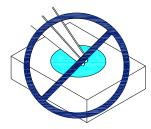
As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might leads to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.

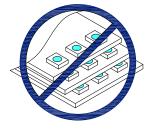


2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

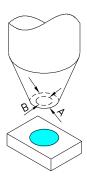




3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



- 4. The outer diameter of the SMD pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



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Selection Guide

Part No.	Dice	lv (mcd) [2] Dice Lens Type @ 20mA		, 	Viewing Angle [1]
		-	Min.	Тур.	201/2
AA3528VRVCS/A	Pink (InGaN)	WATER CLEAR	180	300	120°

- Notes: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур. Мах.		Units	Test Conditions	
VF [1]	Forward Voltage	Pink	3.3	4.0	V	IF=20mA	
lR	Reverse Current	Pink		50	uA	V _R = 5V	
x [2]	Chromaticity Coordinates	Pink	0.35				
y [2]	Chromaticity Coordinates		0.15				
С	Capacitance	Pink	100		pF	VF=0V;f=1MHz	

Notes:

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

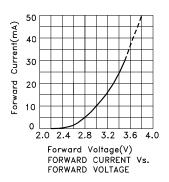
Absolute Maximum Ratings at TA=25°C

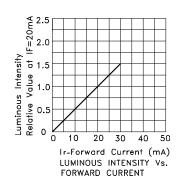
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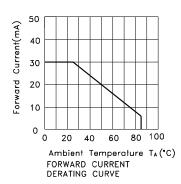
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

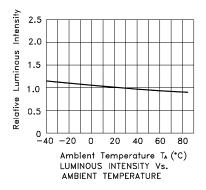
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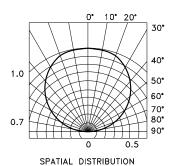
Pink AA3528VRVCS/A





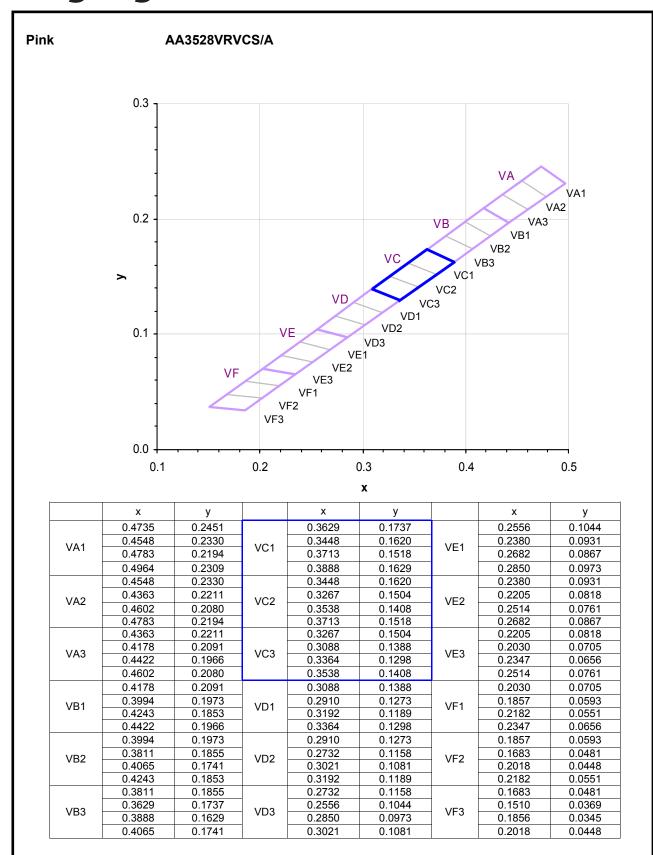






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Notes:

Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ±0.01.

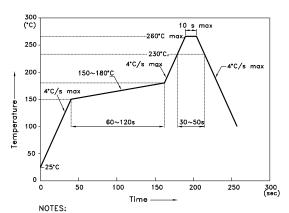
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

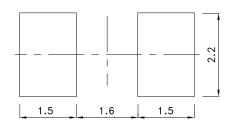
Reflow Soldering Profile For Lead-free SMT Process.



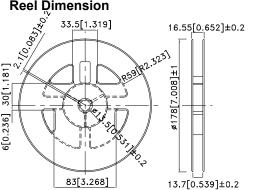
- NOTES: 1.We recommend the reflow temperature 245°C(\pm /-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

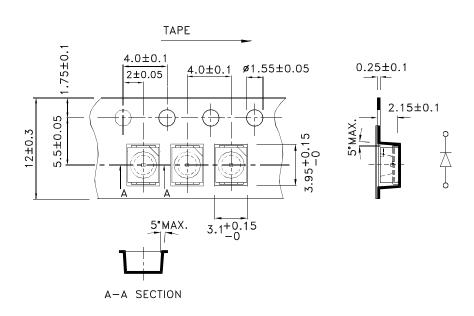
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



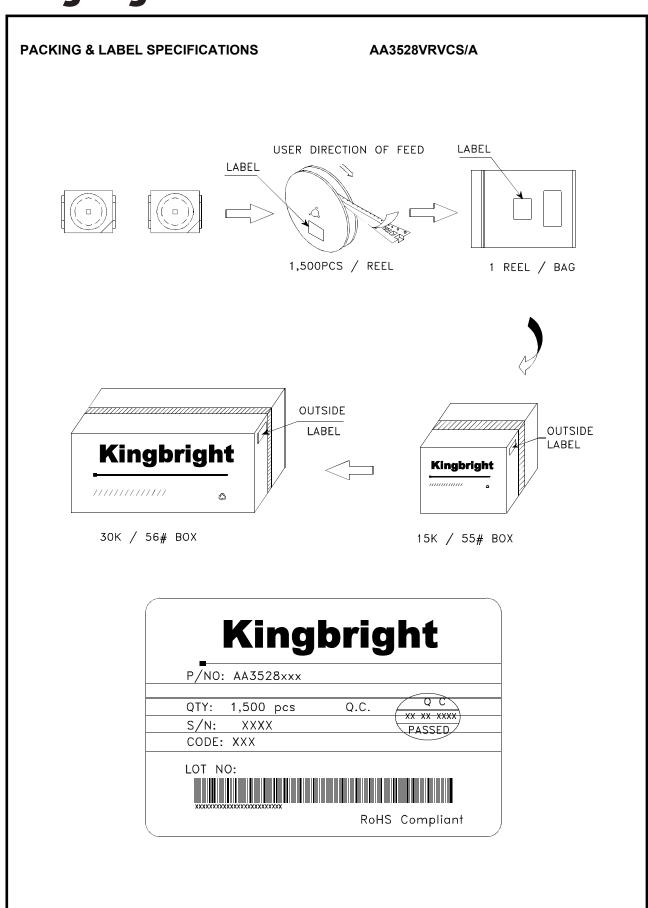
Reel Dimension



Tape Dimensions (Units: mm)



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