

2.8X0.8mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: KA-2810AVW1S White



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

Features

- 2.8mmX0.8mm right angle SMT LED, 1.2mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

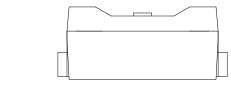
The source color devices are made with InGaN Light Emitting Diode.

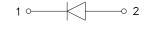
Static electricity and surge damage the LEDS.

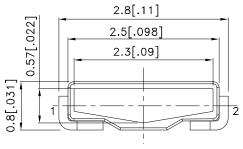
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

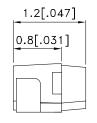
All devices, equipment and machinery must be electrically grounded.

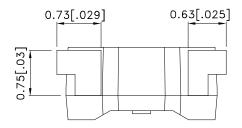
Package Dimensions

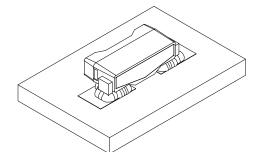












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1 (0.0039")$ unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

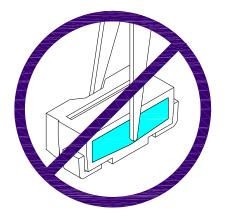
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Handling Precautions

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 lead to damage and premature failure of the LED.

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



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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KA-2810AVW1S	White (InGaN)	Water Clear	1000	1400	110°

- 1. 01/2 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.	Max.	Units	Test Conditions
VF [1]	Forward Voltage	White	3.3	4.0	V	IF=20mA
lr	Reverse Current	White		50	uA	V _R = 5V
X [2]	Chramaticity Coordinates	White	0.31			
Y [2]	Chromaticity Coordinates		0.31			
С	Capacitance	White	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

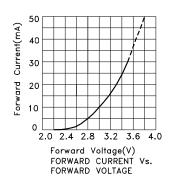
About the American Recently at 17, 200					
Parameter	White				
Power dissipation	120	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	100	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

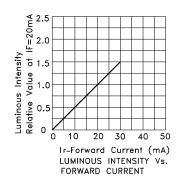
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

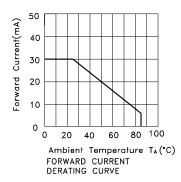
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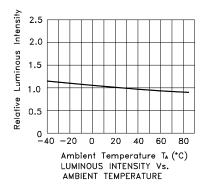
White

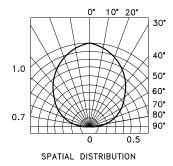
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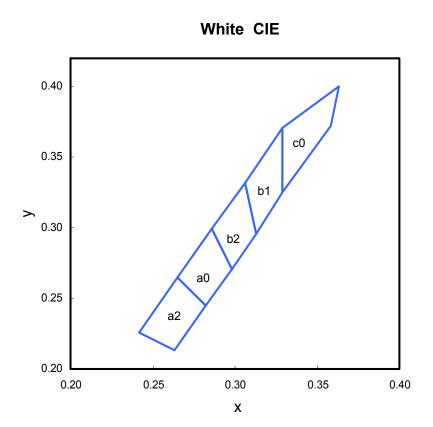






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	х	У		х	у		Х	у
a2	0.263	0.213	a0	0.282	0.245		0.298	0.271
	0.282	0.245		0.298	0.271	b2	0.313	0.296
	0.265	0.265		0.286	0.299	ÜΣ	0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
b1	0.313	0.296	c0	0.329	0.325			
	0.329	0.325		0.358	0.372			
	0.329	0.371		0.363	0.400			
	0.306	0.332		0.329	0.371			

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.

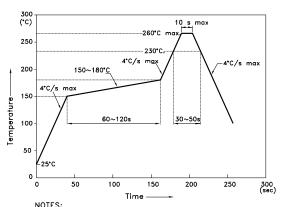
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



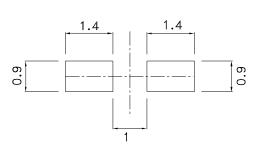
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-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.

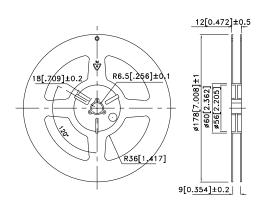
 3.Number of reflow process shall be 2 times or less.

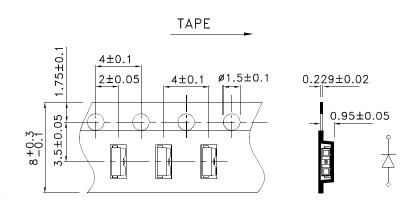
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units : mm)

Reel Dimension





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PACKING & LABEL SPECIFICATIONS USER DIRECTION OF FEED LABEL 2000pcs / Reel 1 Reel / Bag OUTSIDE LABEL Kingbright Kingbright Kingbright Kingbright Kingbright



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60K / 56# BOX

DATE: OCT/23/2010 DRAWN: Y.F.Lv

30K / 55# Box

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