

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

Part Number: KA-2810ACGSK Green

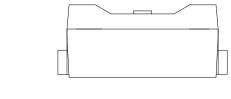
Features

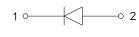
- 2.8mmX0.8mm right angle SMT LED, 1.2mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

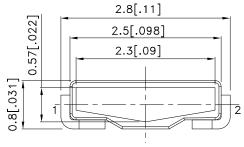
Description

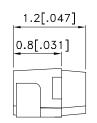
The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

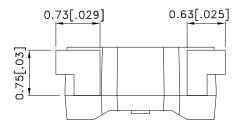
Package Dimensions

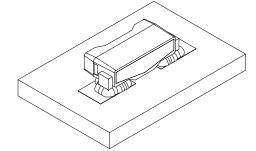












- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.0039") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

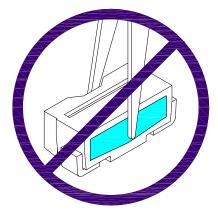
 4. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAK2459 **REV NO: V.2** DATE: FEB/24/2011 PAGE: 1 OF 6 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: D.M.Su ERP: 1201005919

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



2. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.

 SPEC NO: DSAK2459
 REV NO: V.2
 DATE: FEB/24/2011
 PAGE: 2 OF 6

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: D.M.Su
 ERP: 1201005919

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
KA-2810ACGSK	Green (AlGaInP)	WATER CLEAR	40	60	110°

- 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.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	574		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	570		nm	I==20mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	IF=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.1	2.5	V	I==20mA
lR	Reverse Current	Green		10	uA	V _R =5V

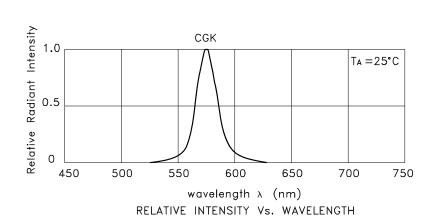
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

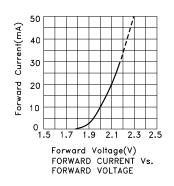
Parameter	Green	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

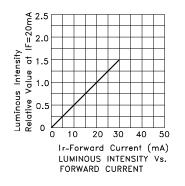
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

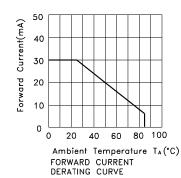
SPEC NO: DSAK2459 **REV NO: V.2** DATE: FEB/24/2011 PAGE: 3 OF 6 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: D.M.Su ERP: 1201005919

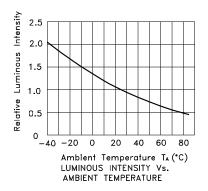


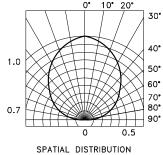
Green KA-2810ACGSK









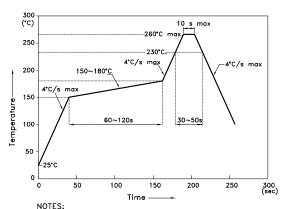


SPEC NO: DSAK2459 REV NO: V.2 DATE: FEB/24/2011 PAGE: 4 OF 6
APPROVED: WYNEC CHECKED: Allen Liu DRAWN: D.M.Su ERP: 1201005919

KA-2810ACGSK

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:

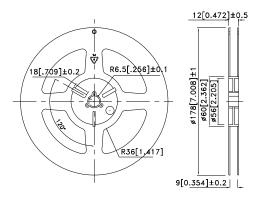
 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

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

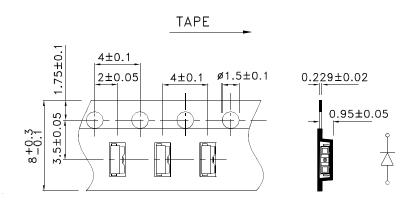
 3.Number of reflow process shall be 2 times or less.

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

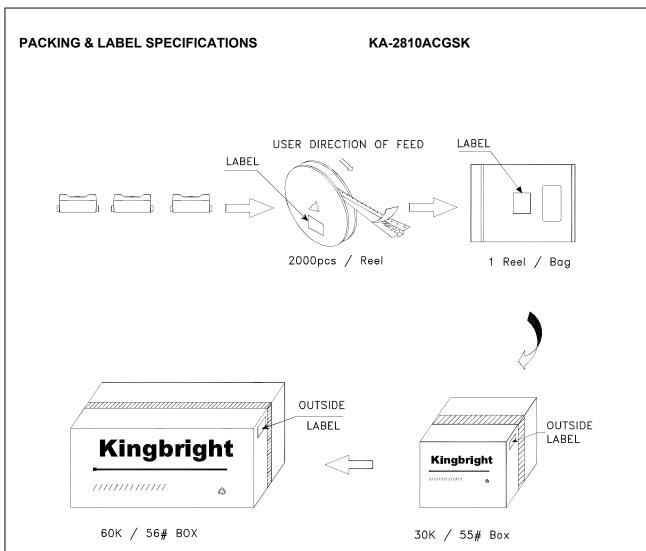
Reel Dimension



Tape Dimensions (Units : mm)



SPEC NO: DSAK2459 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: FEB/24/2011 DRAWN: D.M.Su PAGE: 5 OF 6 ERP: 1201005919





SPEC NO: DSAK2459 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: FEB/24/2011 DRAWN: D.M.Su PAGE: 6 OF 6 ERP: 1201005919