

3.2x1.6mm SMD CHIP LED LAMP

Part Number: KP-3216SGC

Super Bright Green

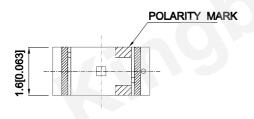
Features

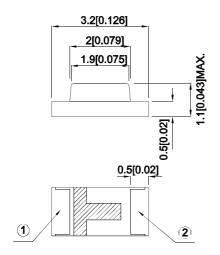
- 3.2mmx1.6mm SMD LED, 1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

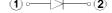
Description

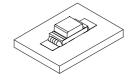
The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions









SPEC NO: DSAA6437

APPROVED: Wynec

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.2(0.0079") 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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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
	3 *** (*** * * ,	7,1	Min.	Тур.	201/2
KP-3216SGC	Super Bright Green (GaP)	Water Clear	5	12	160°

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	Super Bright Green	565		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	I==20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	I==20mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	I==20mA
lr	Reverse Current	Super Bright Green		10	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.

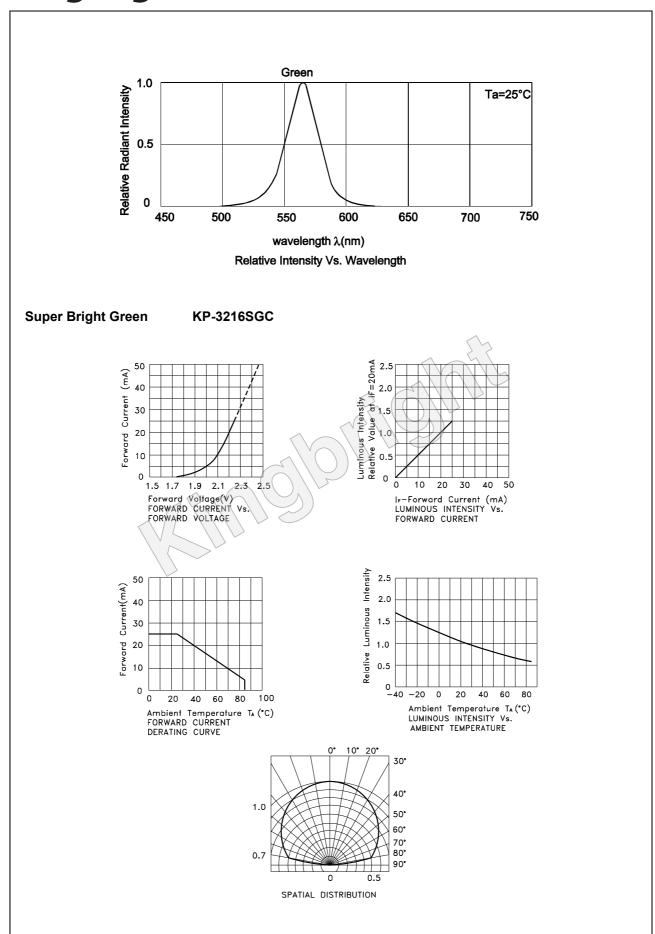
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	62.5	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	140	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.
- 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.

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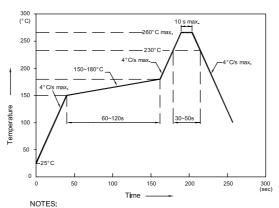
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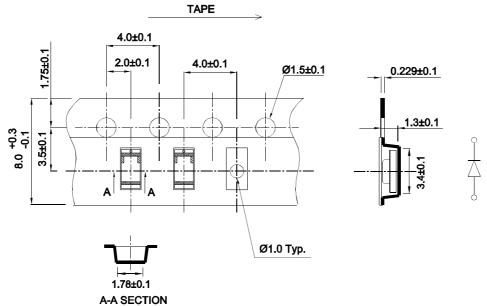
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



- 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; Tolerance: ± 0.1) | 12[0.472]±0.5 | 18[.709]±0.2 | Re.5[.256]±0.1 | Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1) | 12[0.472]±0.5 | Re.5[.256]±0.1 | Resolved Soldering Pattern (Units: mm; Tolerance: ± 0.1)



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PACKING & LABEL SPECIFICATIONS KP-3216SGC USER DIRECTION OF FEED LABEL LABEL 2,000pcs / Ree 1 Reel / Bag OUTSIDE LABEL OUTSIDE LABEL Kingbright 30K / 55# Box 60K / 56# BOX **Kingbright** P/NO: KP-3216XXX QTY: 2,000 pcs

Terms and conditions for the usage of this document

S/N: XXXX CODE: XXX

1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.

RoHS Compliant

- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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