

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPH-1608SGC

Super Bright Green

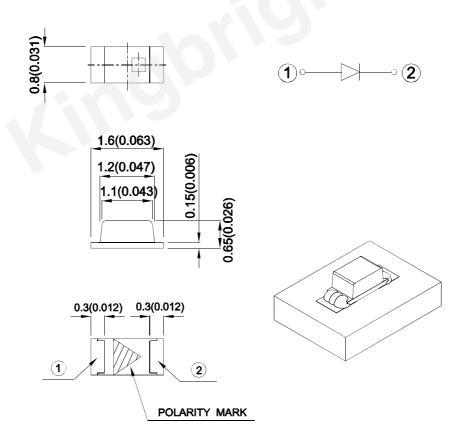
Features

- 1.6mmX0.8mm SMD LED, 0.65mm 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



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") 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: DSAA6008 **REV NO: V.15B DATE: OCT/16/2015** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: L.Q.Xie ERP: 1203001350

Selection Guide

Part No.	Emitting Color (Material)	Iv (mcd) [2] Emitting Color (Material) Lens Type U (mcd) [2]		, - -	Viewing Angle [1]
		-	Min.	Тур.	201/2
KPH-1608SGC	1608SGC Super Bright Green (GaP)		Water Clear 5		120°

Notes:

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
- 2. Luminous intensity / luminous Flux: +/-15%.
- 3. Luminous intensity value is traceable to the CIE127-2007 compliant national 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	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
lr	Reverse Current	Super Bright Green		10	uA	VR=5V

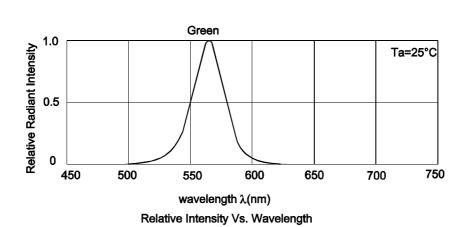
- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

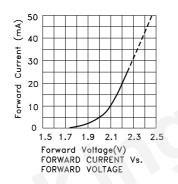
Values		
62.5		
t 25		
140	mA	
5	V	
-40°C To +85°C		
-40°C To +85°C		
	62.5 25 140 5 -40°C To +85°C	

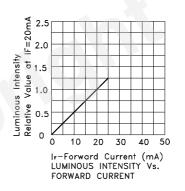
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

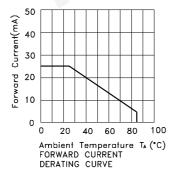
SPEC NO: DSAA6008 **REV NO: V.15B** DATE: OCT/16/2015 PAGE: 2 OF 5 DRAWN: L.Q.Xie **APPROVED: Wynec CHECKED: Allen Liu** ERP: 1203001350

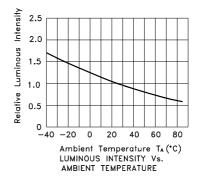


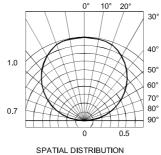
Super Bright Green KPH-1608SGC











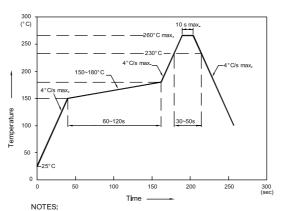
 SPEC NO: DSAA6008
 REV NO: V.15B
 DATE: OCT/16/2015
 PAGE: 3 OF 5

 APPROVED: Wynec
 CHECKED: Allen Liu
 DRAWN: L.Q.Xie
 ERP: 1203001350

KPH-1608SGC

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.

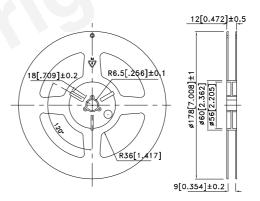


- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

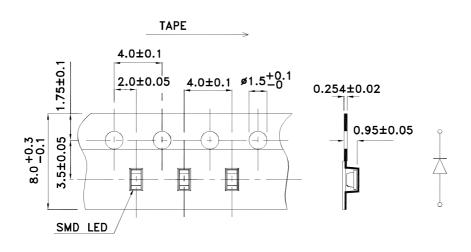
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.8 0.85 0.8

Reel Dimension



Tape Dimensions (Units: mm)



SPEC NO: DSAA6008 APPROVED: Wynec REV NO: V.15B CHECKED: Allen Liu DATE: OCT/16/2015 DRAWN: L.Q.Xie PAGE: 4 OF 5 ERP: 1203001350

PACKING & LABEL SPECIFICATIONS KPH-1608SGC User Direction of Feed 2.000pcs / Ree 1Reel / Bag Outside Outside Label Kingbright Kingbright 30K / 55# Box 60K / 56# Box Kingbright P/NO: KPH-1608xxx QC QTY: 2,000 pcs Q.C. PASSED S/N: XXXX CODE: XXX

Terms and conditions for the usage of this document

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.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.kingbright.com/application notes

 SPEC NO: DSAA6008
 REV NO: V.15B
 DATE: OCT/16/2015
 PAGE: 5 OF 5

 APPROVED: Wynec
 CHECKED: Allen Liu
 DRAWN: L.Q.Xie
 ERP: 1203001350

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - SMD category:

Click to view products by Kingbright manufacturer:

Other Similar products are found below:

LTST-C19GD2WT LTST-N683GBEW 597-3006-607F 597-3403-607F LTW-K140SZR40 LTW-M140ZVS 598-8110-100F 598-8170-100F 598-8610-202F 7012X7 AAAF5060QBFSEEZGS 12-22SURSYGC/S530-A3/E2/TR8 1383SURT/S530-A3/TR1(R) APT1608QGW EASV1803BA0 SML310BATT86 SML-512VWT86A SML-LX0606SISUGC/A SML-LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A 17-21/G6C-FM1N2B/3T FAT801-S SSL-LXA227IC-TR31A AM27ZGC03 APB3025SGNC APHK1608VGCA APT2012QGW CLMVC-FKA-CA1E1L81BB7C3C3 CLYBA-FKA-CFHHKL9BBB7A363 CMD11504UR LTW-020ZDCG LTW-21TS5 LTW-K140SZR30 HSMY-C177 UYGT801-S KVH1C100MF6R 42-21SYGC/S530-E1/TR8 YGFR411-H 597-2311-402F 597-2712-602F 5973212407NF 597-3302-607F 597-5202-407F 598-8330-117F SAW8WA2A-L35M40-CA SML013WBDW1 SML-LX0402IC-TR CLMVC-FKA-CLBDGL7LBB79353 VLMKG3400-GS08