

KP-3216SGC

3.2 x 1.6 mm SMD Chip LED Lamp



DESCRIPTION

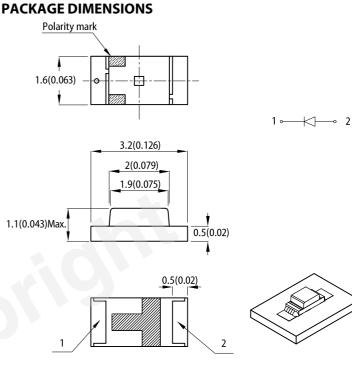
• The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode

FEATURES

- 3.2 mm x 1.6 mm SMD LED, 1.1 mm thickness
- Low power consumption
- Wide viewing angle
- · Ideal for backlight and indicator
- Package: 2000 pcs / reel
- Moisture sensitivity level: 3
- · RoHS compliant

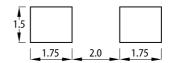
APPLICATIONS

- Backlight
- Status indicator
- · Home and smart appliances
- · Wearable and portable devices
- · Healthcare applications



RECOMMENDED SOLDERING PATTERN

(units : mm; tolerance : ± 0.1)



1. All dimensions are in millimeters (inches).

Tolerance is ±0.2(0.0079") unless otherwise noted.
 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.

SELECTION GUIDE

Part Number	Emitting Color	Lens Type	lv (mcd) @ 20mA ^[2]		Viewing Angle ^[1]
Fart Number	(Material)	Lens Type	Min.	Тур.	201/2
KP-3216SGC	Super Bright Green (GaP)	Water Clear	5	12	160°

Notes

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%.
 3. Luminous intensity value is traceable to CIE127-2007 standards.

深圳市大靖科技有限公司 www.sz-djkj.com 专营:Kingbright(今台)全系列LED灯珠 Page 1/4 原装正品,国内库存,当天发货,技术支持 电话:0755-23611637/23611737 传真:0755-23611837

€ Kohs © 2018 Kingbright. All Rights Reserved. Spec No: DSAA6437 / 1203000404 Rev No: V.20B Date: 11/01/2018

Kingbright

ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
Parameter		Emitting Color	Тур.	Max.	Unit
Wavelength at Peak Emission I_F = 20mA	λ_{peak}	Super Bright Green	565	-	nm
Dominant Wavelength I_F = 20mA	λ_{dom} ^[1]	Super Bright Green	568	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 20mA	Δλ	Super Bright Green	30	-	nm
Capacitance	С	Super Bright Green	15	-	pF
Forward Voltage I_F = 20mA	V _F ^[2]	Super Bright Green	2.2	2.5	V
Reverse Current (V _R = 5V)	I _R	Super Bright Green	-	10	uA

Notes:

The dominant wavelength (λd) above is the setup value of the sorting machine. (Tolerance λd : ±1nm.)
 Forward voltage: ±0.1V.
 Wavelength value is traceable to CIE127-2007 standards.
 Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

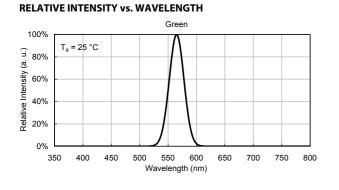
ABSOLUTE MAXIMUM RATINGS at T_A=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	62.5	mW
Reverse Voltage	V _R	5	V
Junction Temperature	Tj	110	°C
Operating Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
DC Forward Current	I _F	25	mA
Peak Forward Current	I _{FM} ^[1]	140	mA
Electrostatic Discharge Threshold (HBM)	-	8000	V

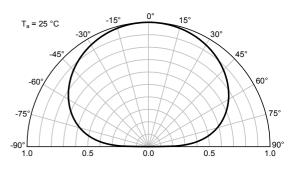
Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

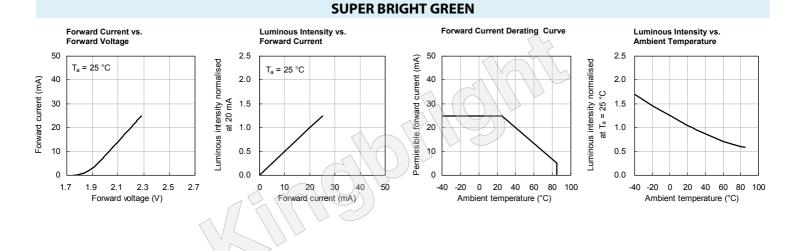
Kingbright

TECHNICAL DATA

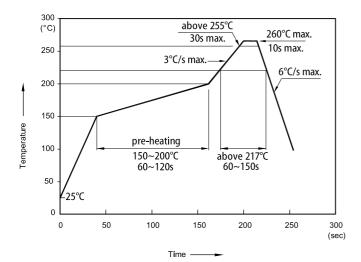


SPATIAL DISTRIBUTION





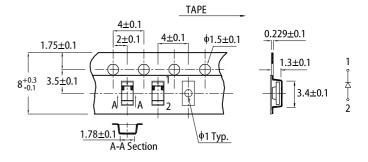
REFLOW SOLDERING PROFILE for LEAD-FREE SMD PROCESS



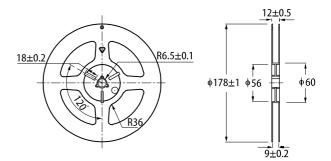
Notes:

- Don't cause stress to the LEDs while it is exposed to high temperature.
 The maximum number of reflow soldering passes is 2 times.
 Reflow soldering is recommended. Other soldering methods are not recommended as they might cause damage to the product

TAPE SPECIFICATIONS (units : mm)

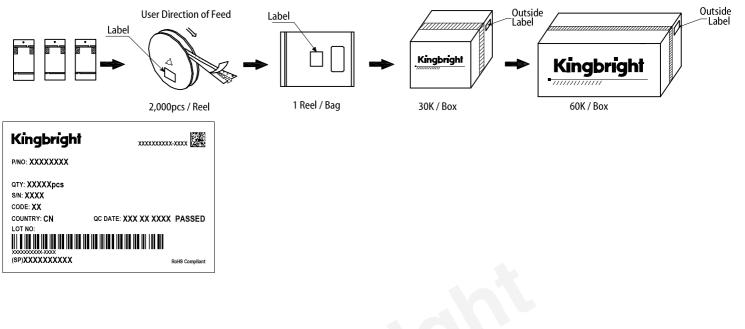


REEL DIMENSION (units : mm)



Kingbright

PACKING & LABEL SPECIFICATIONS



PRECAUTIONARY NOTES

- The information included in this document reflects representative usage scenarios and is intended for technical reference only
- 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. 2
- 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. 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
- 4. liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright. All design applications should refer to Kingbright application notes available at https://www.Kingbright.com/application not 5
- 6.