

3.2mmx1.6mm SMD CHIP LED LAMP

Green

Part Number: KPT-3216ZGC



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

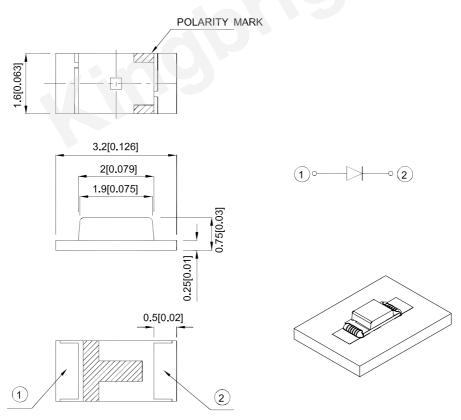
Features

- 3.2mmx1.6mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- · RoHS compliant.

Descriptions

- The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAF1153

APPROVED: Wynec

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2(0.008")$ 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.

REV NO: V.9B DATE: JUL/02/2015 PAGE: 1 OF 5 **CHECKED: Allen Liu** DRAWN: L.Q.Xie ERP: 1203003551

Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
KPT-3216ZGC	Green (InGaN)	Water Clear	200	400	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	Green	515		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA
С	Capacitance	Green	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	3.3	4.1	V	IF=20mA
lr	Reverse Current	Green		50	uA	VR=5V

Notes:

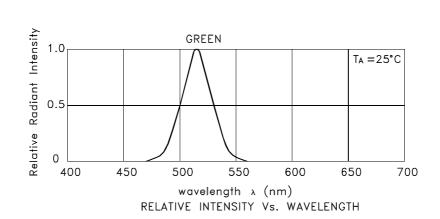
- Wavelength: +/-1nm.
 Forward Voltage: +/-0.1V.
 Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

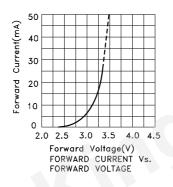
Parameter	Values	Units
Power dissipation	102.5	mW
DC Forward Current	25	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Electrostatic Discharge Threshold (HBM)	450	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	orage Temperature -40°C To +85°C	

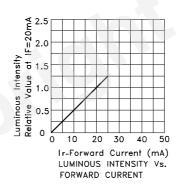
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

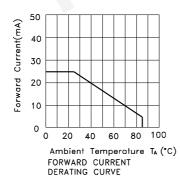
SPEC NO: DSAF1153 **REV NO: V.9B** DATE: JUL/02/2015 PAGE: 2 OF 5 ERP: 1203003551 DRAWN: L.Q.Xie APPROVED: Wynec **CHECKED: Allen Liu**

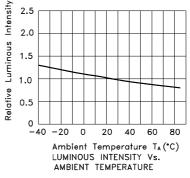


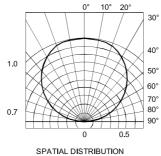
Green KPT-3216ZGC









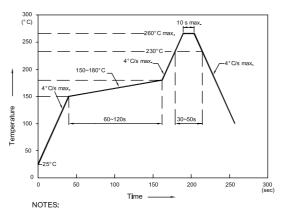


SPEC NO: DSAF1153 REV NO: V.9B DATE: JUL/02/2015 PAGE: 3 OF 5
APPROVED: Wynec CHECKED: Allen Liu DRAWN: L.Q.Xie ERP: 1203003551

KPT-3216ZGC

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.

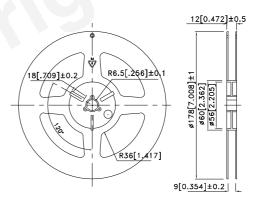


- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed to high temperature
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

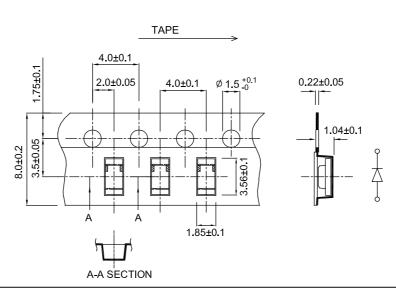
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.75 2.0 1.75

Reel Dimension



Tape Dimensions (Units: mm)

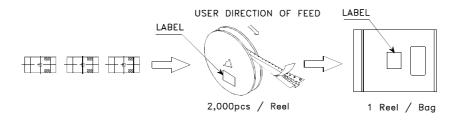


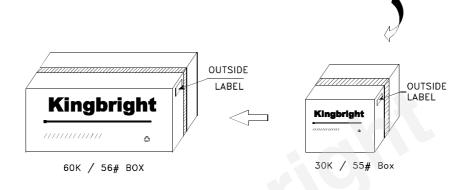
SPEC NO: DSAF1153
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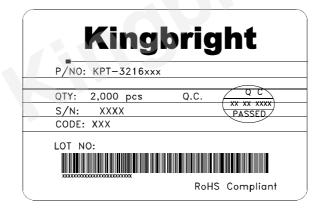
REV NO: V.9B CHECKED: Allen Liu DATE: JUL/02/2015 DRAWN: L.Q.Xie PAGE: 4 OF 5 ERP: 1203003551

PACKING & LABEL SPECIFICATIONS

KPT-3216ZGC







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 SPEC NO: DSAF1153
 REV NO: V.9B
 DATE: JUL/02/2015
 PAGE: 5 OF 5

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