

## 1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPC-1608FGCK Mega Green

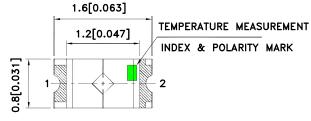
### **Features**

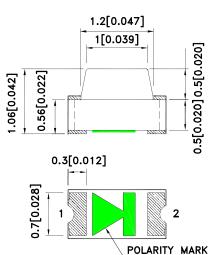
- 1.6mmX0.8mm SMT LED, 1.06mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 3000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

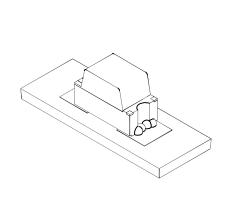
## **Description**

The Mega Green source color devices are made with Al-GaInP on GaAs substrate Light Emitting Diode.

# **Package Dimensions**







- All dimensions are in millimeters (inches).
   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: DSAN4363 REV NO: V.1B DATE: JAN/16/2014** PAGE: 1 OF 5 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.Liu ERP: 1203014139

## **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPC-1608FGCK	Mega Green (AlGaInP)	Water Clear	20	50	145°(H) 130°(V)

- 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	Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green		574		nm	IF=20mA
λD [1]	Dominant Wavelength	Mega Green	564		570	nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Mega Green		20		nm	IF=20mA
С	Capacitance	Mega Green		15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Mega Green		2.1	2.5	V	IF=20mA
lr	Reverse Current	Mega Green			10	uA	VR=5V

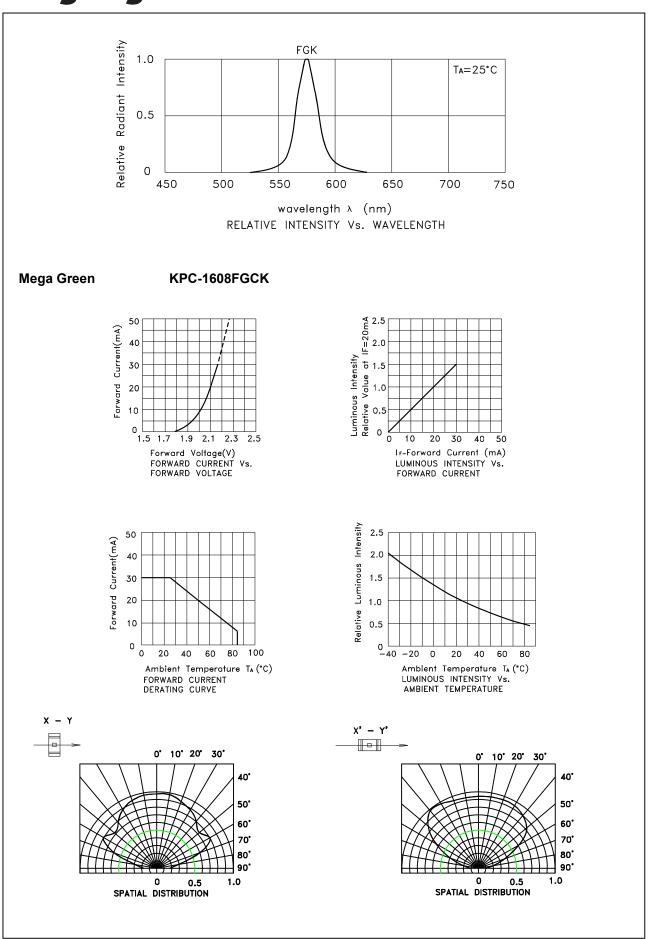
- Notes:
  1.Wavelength: +/-1nm.
  2. Forward Voltage: +/-0.1V.
  3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

# Absolute Maximum Ratings at TA=25°C

Parameter	er Mega Green			
Power dissipation	75			
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			

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

DATE: JAN/16/2014 SPEC NO: DSAN4363 **REV NO: V.1B** PAGE: 2 OF 5 APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.Liu ERP: 1203014139



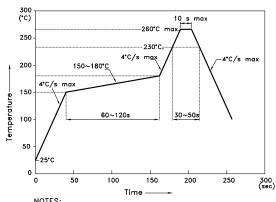
SPEC NO: DSAN4363 FAPPROVED: WYNEC CO

REV NO: V.1B CHECKED: Allen Liu DATE: JAN/16/2014 DRAWN: Y.Liu PAGE: 3 OF 5 ERP: 1203014139

## KPC-1608FGCK

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.

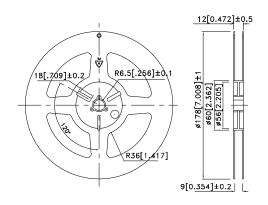
3.Number of reflow process shall be 2 times or less.

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

# ω Ö 0.8 0.85 0.8

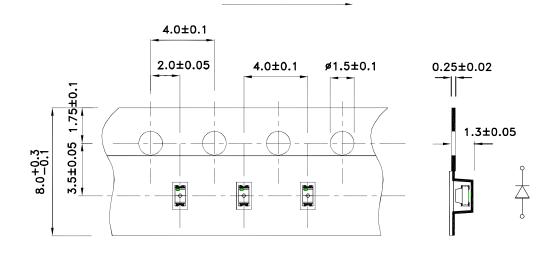
# **Tape Dimensions** (Units: mm)

# **Reel Dimension**



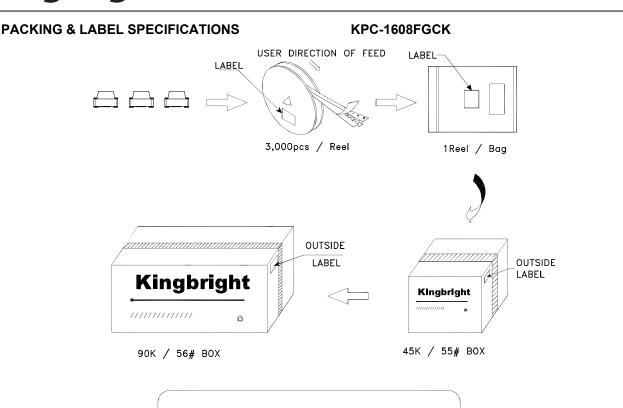
PAGE: 4 OF 5

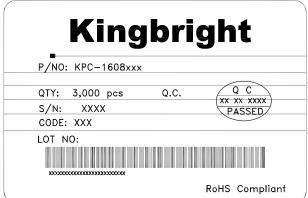
ERP: 1203014139



**TAPE** 

**SPEC NO: DSAN4363 REV NO: V.1B DATE: JAN/16/2014** APPROVED: WYNEC CHECKED: Allen Liu DRAWN: Y.Liu





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 SPEC NO: DSAN4363
 REV NO: V.1B
 DATE: JAN/16/2014
 PAGE: 5 OF 5

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