1.6X0.8mm SMD CHIP LED LAMP

Part Number: KP-1608CGCK Green

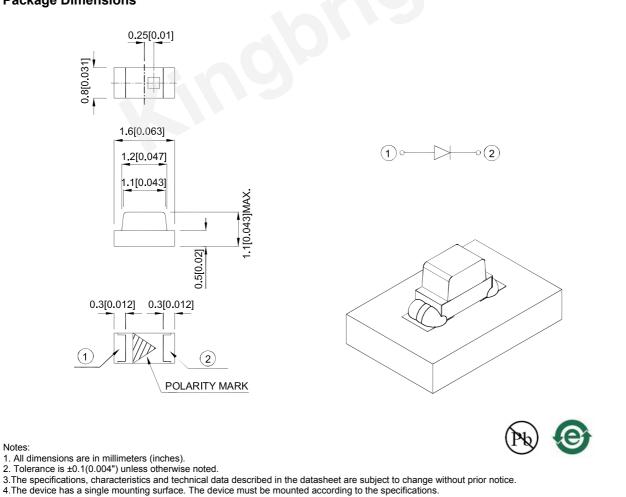
Features

- 1.6mmX0.8mm SMT 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 Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions



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Part No.	Dice	Dice Lens Type Iv (mcd) [2] @ 20mA		·	Viewing Angle [1]
			Min.	Тур.	201/2
KP-1608CGCK	Green (AlGaInP)	Water Clear	20	50	120°

Notes:

θ1 / 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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green	570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	I⊧=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.1	2.5	V	I⊧=20mA
lr	Reverse Current	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.

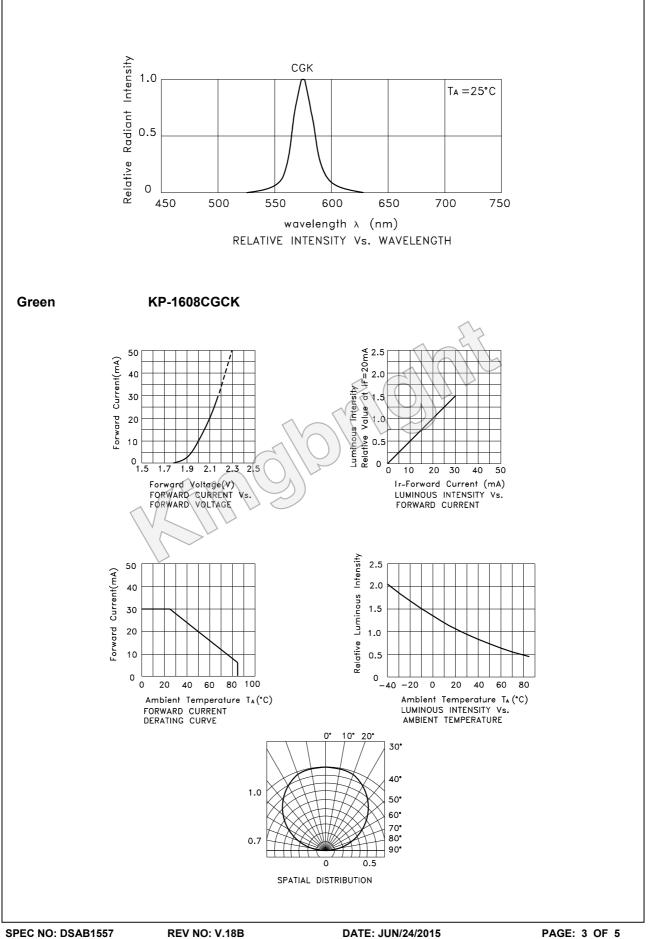
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units	
Power dissipation	75	mW	
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.

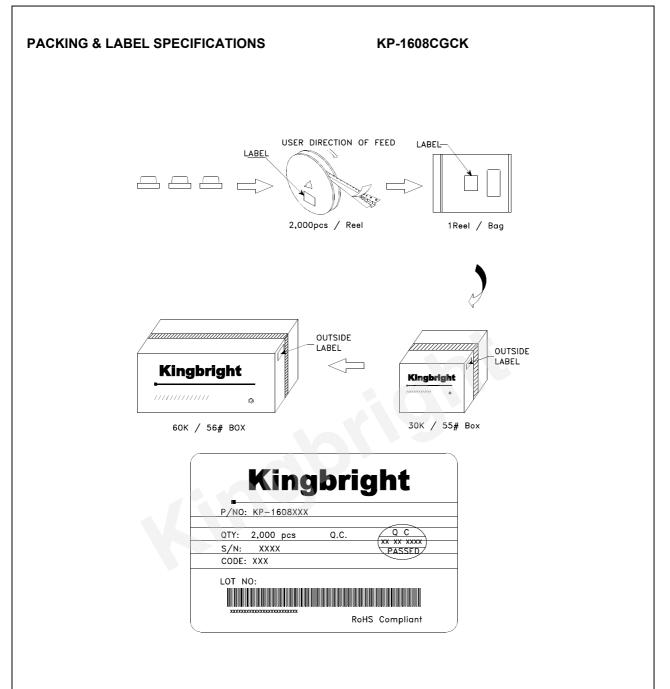


KP-1608CGCK

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. 300 (°C) 10 s max 260°C 250 230 4*C/s 4°C/s ma> 200 150~180°<u>C</u> 4°C/s m 150 Temperature 60~120 30~50 100 50 25°C 0 0 50 100 150 200 250 300 (sec) Time 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 be because stress. to high temperature. 3.Number of reflow process shall be 2 times or less. **Recommended Soldering Pattern Reel Dimension** (Units : mm; Tolerance: ± 0.1) 12[0.472]±0.5 õ 00 1<u>8[.7</u>09]±0.2 R6.5[.256]± 178[7.008]±1 Ö ø60[2.362] ø56[2.205] 0.8 Q.85 0.8 र्र36[1 **Tape Dimensions** 9[0.<u>354]±0.2</u>| (Units : mm) TAPE 4.0±0.1 1.75±0.1 2.0 ± 0.05 4.0±0.1 ø1.5±0.1 0.25±0.02 1.3±0.05

5±0.05 8.0-0.1 m SPEC NO: DSAB1557 REV NO: V.18B DATE: JUN/24/2015 PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: M.Liu ERP: 1203000001



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