

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.6mmX0.8mm SMD LED, 0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 4000pcs / reel.
- Moisture sensitivity level : level 3.
- Low current IF=5mA operating.
- RoHS compliant.

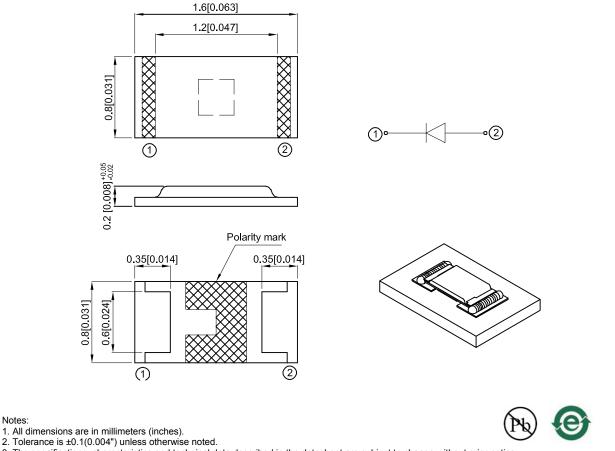
1.6X0.8mm SMD CHIP LED LAMP (0.2mm Height)

Part Number: KPG1-1608VGC-TT-5MAV Green

Descriptions

- The Green source color devices are made with InGaN on SiC substrate 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



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.

Notes:

REV NO: V.1B CHECKED: Allen Liu

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PAGE: 1 OF 5 ERP: 1203015084

Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 5mA		Viewing Angle [1]	
			Min.	Тур.	201/2	
KPG1-1608VGC-TT-5MAV	Green (InGaN)	Water Clear	30	70	130°	

Notes:

1. θ 1/2 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	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	518		nm	I⊧=5mA
λD [1]	Dominant Wavelength	Green	527		nm	I⊧=5mA
Δλ1/2	Spectral Line Half-width	Green	35		nm	I⊧=5mA
VF [2]	Forward Voltage	Green	3.0	3.2	V	I⊧=5mA
IR	Reverse Current	Green		50	uA	VR = 5V

Notes:

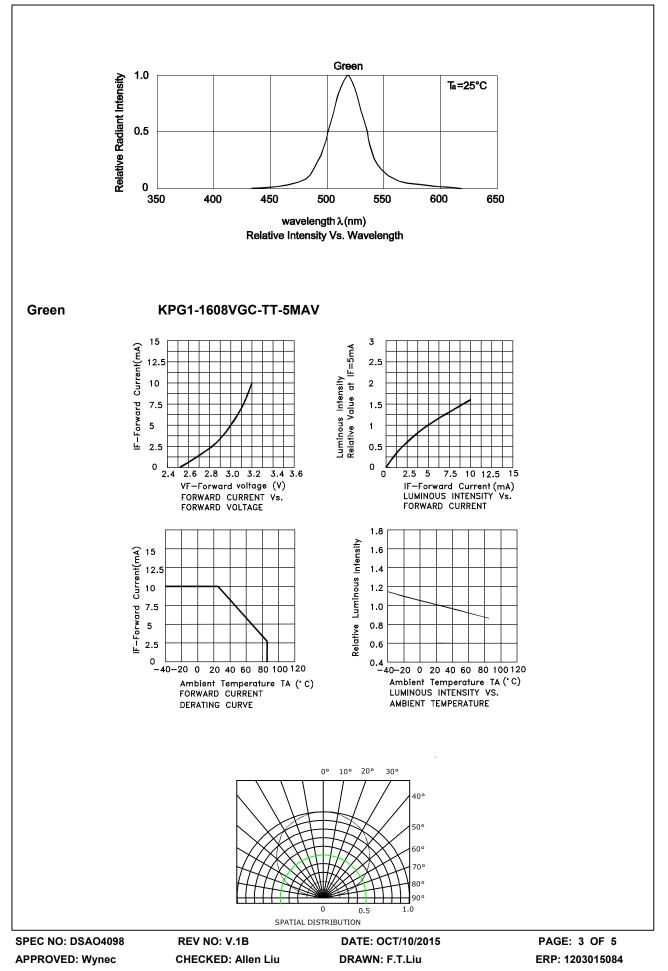
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.
Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units		
Power dissipation	34	mW		
DC Forward Current	10	mA		
Peak Forward Current [1]	50	mA		
Reverse Voltage	5	V		
Electrostatic Discharge Threshold (HBM)	1000	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

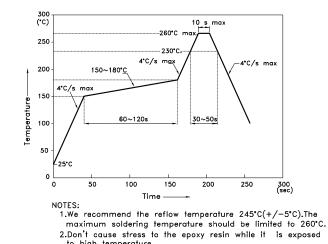
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPG1-1608VGC-TT-5MAV

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.

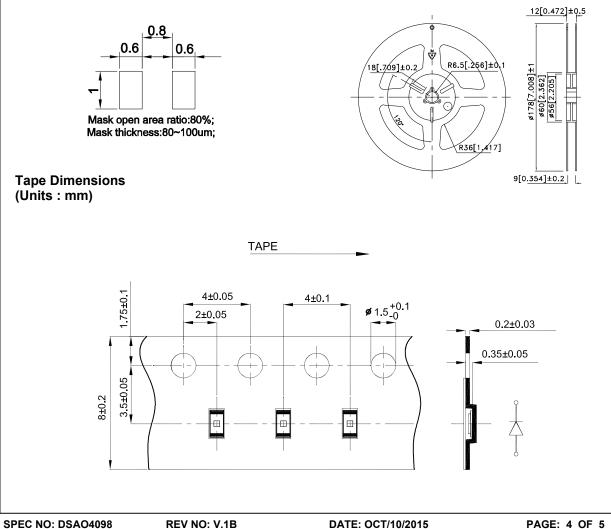
Reflow Soldering Profile For Lead-free SMT Process.



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

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

Reel Dimension

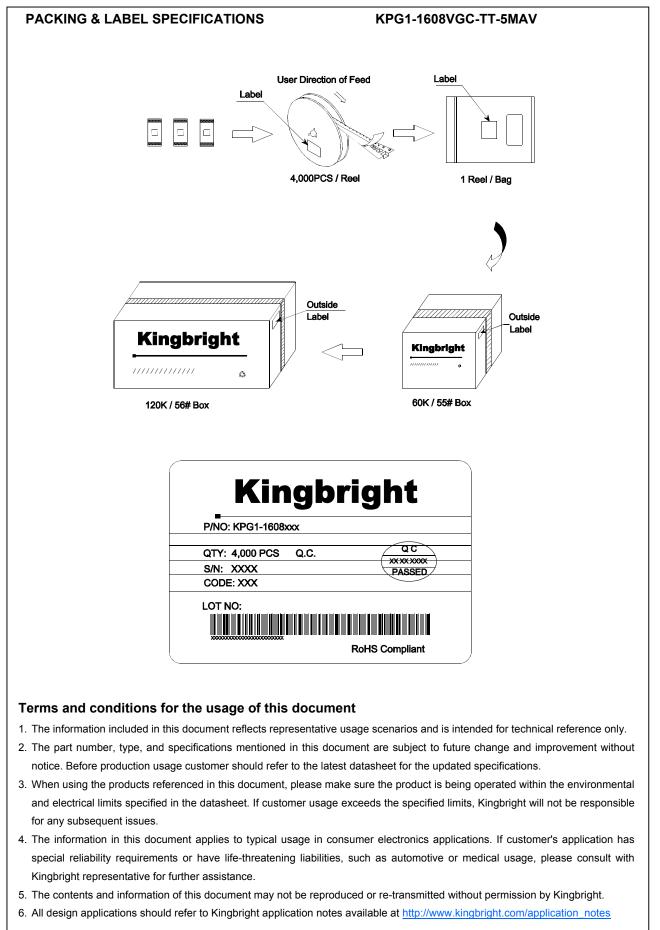


SPEC NO: DSAO4098 **APPROVED: Wynec**

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PAGE: 4 OF 5 ERP: 1203015084



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