

#### SUBMINIATURE SOLID STATE LAMP

Part Number: KM2520CGCK08 Green

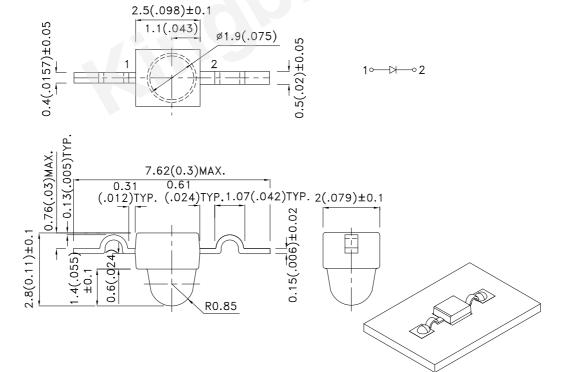
#### **Features**

- Subminiature package.
- Yoke lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package: 1000pcs / reel.
- RoHS compliant.

## **Description**

The Green source color devices are made with AlGalnP on GaAs substrate Light Emitting Diode.

## **Package Dimensions**



- All dimensions are in millimeters (inches).
   Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
- 5. The device has a single mounting surface. The device must be mounted according to the specifications.

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### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
KM2520CGCK08	Green (AlGaInP)	Water Clear	400	800	20°

#### 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 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	IF=20mA
λD [1]	Dominant Wavelength	Green	570		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	IF=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.1	2.5	V	IF=20mA
lr	Reverse Current	Green		10	uA	V <sub>R</sub> =5V

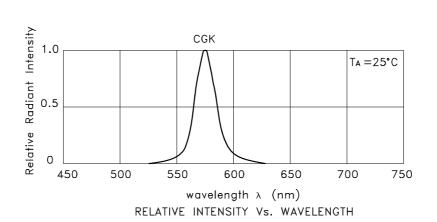
- Notes:
  1.Wavelength: +/-1nm.
  2. Forward Voltage: +/-0.1V.
  3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

### Absolute Maximum Ratings at TA=25°C

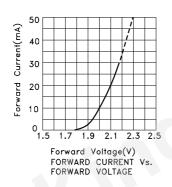
ter Green						
75	mW					
30	mA					
150	mA					
5	V					
-40°C To +85°C						
-40°C To +85°C						
	Green  75  30  150  5  -40°C To +85°C					

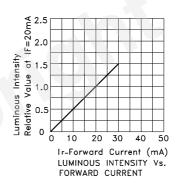
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

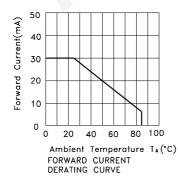
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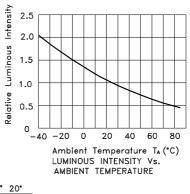


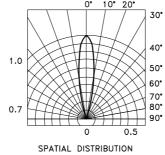
Green KM2520CGCK08











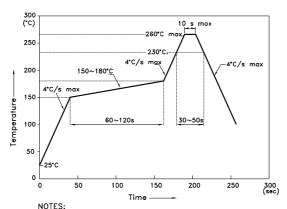
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#### KM2520CGCK08

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.



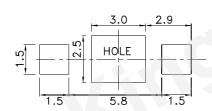
- NOTES:

  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.

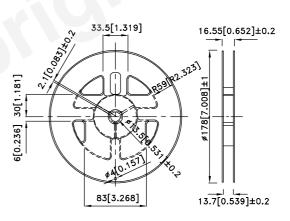
  3.Number of reflow process shall be 2 times or less.

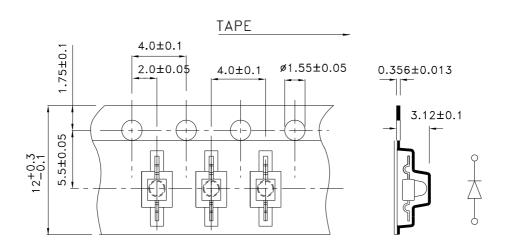
**Recommended Soldering Pattern** (Units: mm; Tolerance: ± 0.1)



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

## **Reel Dimension**

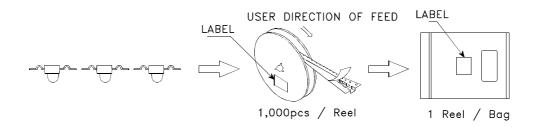


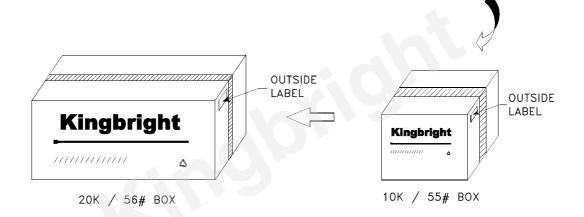


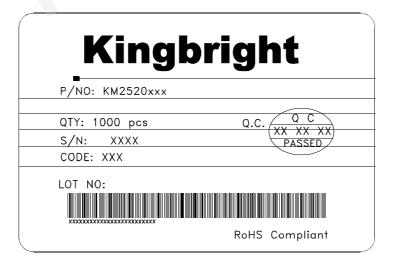
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## **PACKING & LABEL SPECIFICATIONS**

#### **KM2520CGCK08**







Detailed application notes are listed on our website. <a href="http://www.kingbright.com/application">http://www.kingbright.com/application</a> notes

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