

#### SURFACE MOUNT DISPLAY

KPSA02-102

SUPER BRIGHT GREEN

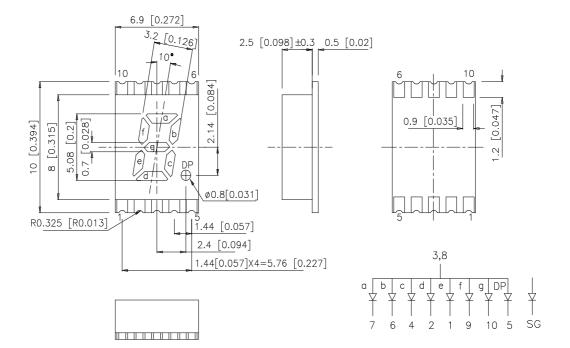
#### **Features**

- •0.2INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- ●I.C. COMPATIBLE
- •MECHANICALLY RUGGED.
- •GRAY FACE, WHITE SEGMENT.
- •PACKAGE:1300PCS/REEL.

#### **Description**

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

### Package Dimensions & Internal Circuit Diagram



#### Notes

- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
- 2. Specifications are subject to change without notice.

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APPROVED: J. Lu CHECKED: Joe Lee DRAWN: Y.CHENG

# Kingbright

### **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) @ 10mA		Description
			Min.	Тур.	
KPSA02-102	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	1900	10000	Common Anode, Rt. Hand Decimal.

# Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=20mA
λD	Dominant Wavelength	Super Bright Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
lr	Reverse Current	Super Bright Green		10	uA	VR = 5V

# Absolute Maximum Ratings at Ta=25°C

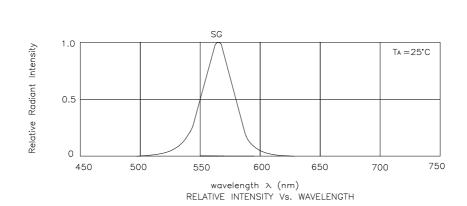
Parameter	Super Bright Green		
Power dissipation	105	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	rating / Storage Temperature -40°C To +85°C		

Note

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

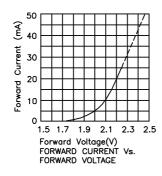
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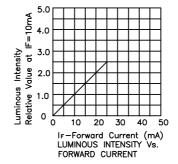
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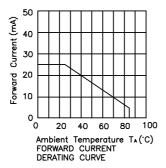


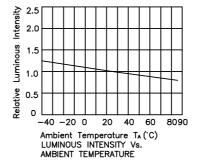
Super Bright Green

**KPSA02-102** 









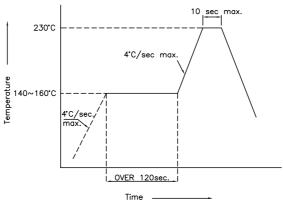
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APPROVED: J. Lu

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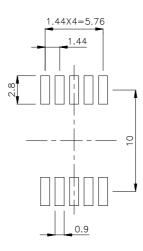
### KPSA02-102 SMT Reflow Soldering Instructions

Number of reflow process shall be 2 times or less and cooling process to normal temperature is required between first and second soldering process.

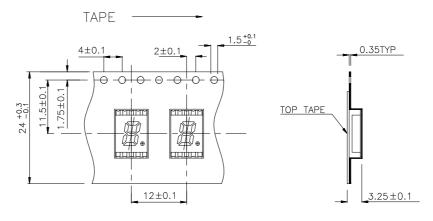


# **Recommended Soldering Pattern**

(Units: mm)



# Tape Specifications (Units: mm)



#### Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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