

#### SUBMINIATURE SOLID STATE LAMP

KM2520SEC09

SUPERBRIGHTORANGE

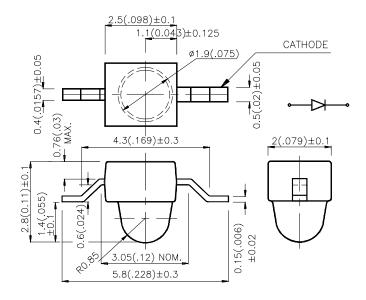
#### **Features**

- •SUBMINIATURE PACKAGE.
- •WIDEVIEWINGANGLE.
- •GULL WING.
- •LONGLIFE-SOLID STATE RELIABILITY.
- •LOWPACKAGEPROFILE.
- •PACKAGE: 1000PCS/REEL.

#### **Description**

The Super Bright Orange source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode.

### **Package Dimensions**



#### Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25 (0.01")$  unless otherwise noted.
- $3. \ \mbox{Lead}$  spacing is measured where the lead emerge package.
- 4. Specifications are subject to change without notice.

SPEC NO: KDA0503 APPROVED:J.LU REV NO: V.1 CHECKED:

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#### **Selection Guide**

Part No.	Dice	Lens Type	<b>lv (mcd)</b> @ 20 mA		<b>Viewing</b> Angle
			Min.	Тур.	201/2
KM2520SEC09	SUPER BRIGHT ORANGE (InGaAIP)	WATER CLEAR	500	1300	20°

#### Note:

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Orange	610		nm	IF=20mA
λD	Dominate Wavelength	Super Bright Orange	601		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Super Bright Orange	29		nm	IF=20mA
С	Capacitance	Super Bright Orange	30		pF	VF=0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Super Bright Orange	2.0	2.5	V	IF=20mA
I <sub>R</sub>	Reverse Current	Super Bright Orange		10	uA	VR = 5V

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

Parameter	Super Bright Orange	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	195	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	1

#### Note

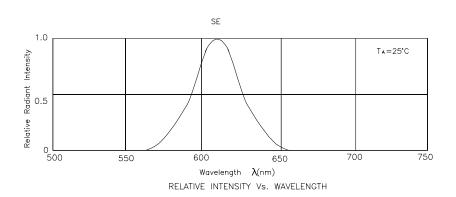
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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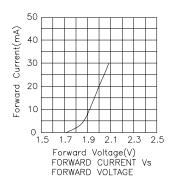
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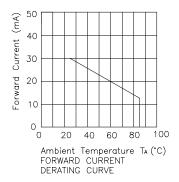
<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

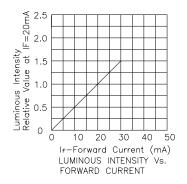


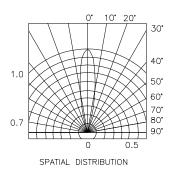


## Super Bright Orange KM2520SEC09







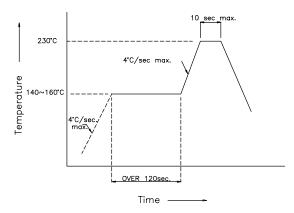


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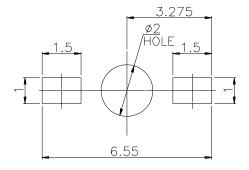
# Kingbright

### KM2520SEC09 SMT Reflow Soldering Instructions

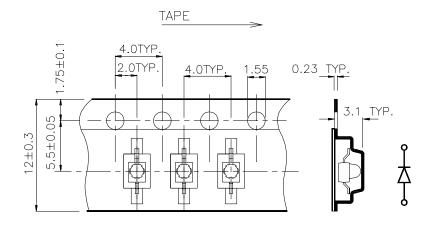
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



## Recommended Soldering Pattern (Units:mm)



## Tape Specifications (Units:mm)



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