#### SURFACE MOUNT DISPLAY

KPSA56-106

SUPER BRIGHT ORANGE

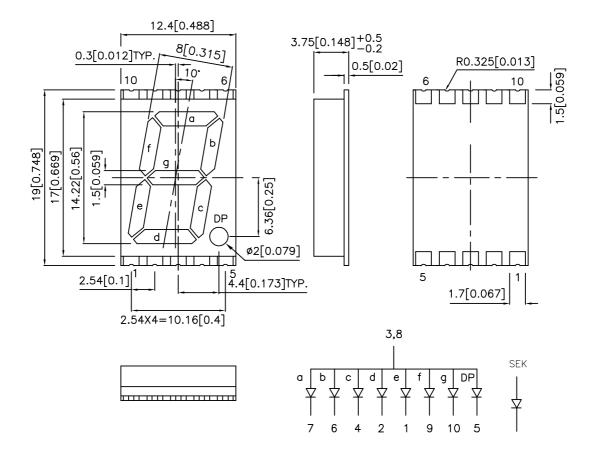
#### **Features**

- ●0.56INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- ●I.C. COMPATIBLE.
- •MECHANICALLY RUGGED.
- •GRAY FACE, WHITE SEGMENT.
- ●PACKAGE:800PCS/ REEL.

#### **Description**

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

### **Package Dimensions & Internal Circuit Diagram**



#### Notes

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

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#### **Selection Guide**

Part No.	Dice Lens Type		lv (ucd) @ 10mA		Description
1 4.11.11		200 1,750	Min.	Тур.	2000
KPSA56-106	SUPER BRIGHT ORANGE (InGaAIP)	WHITE DIFFUSED	12000	40100	Common Anode, Rt. Hand Decimal.

### 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	I <sub>F</sub> =20mA
λD	Dominant Wavelength	Super Bright Orange	601		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	29		nm	I <sub>F</sub> =20mA
С	Capacitance	Super Bright Orange	15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Super Bright Orange	2.1	2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Super Bright Orange		10	uA	$V_R = 5V$

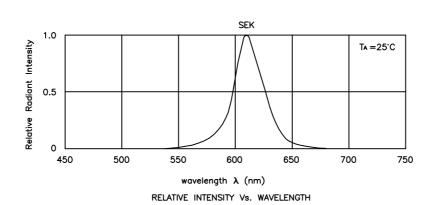
### Absolute Maximum Ratings at Ta=25°C

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

Note

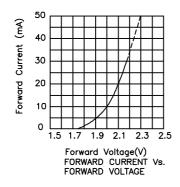
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

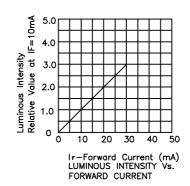
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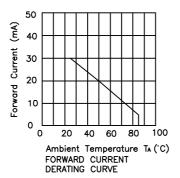


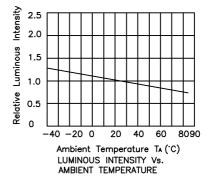
**Super Bright Orange** 

**KPSA56-106** 







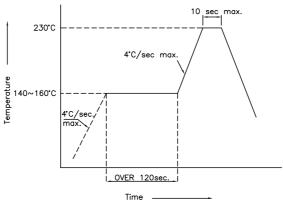


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APPROVED: J. Lu

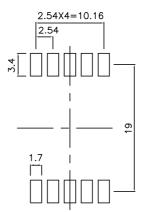
### KPSA56-106 SMT Reflow Soldering Instructions

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



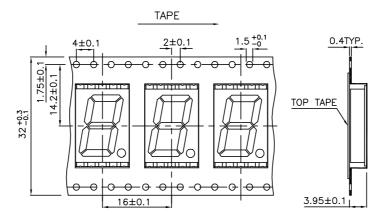
## Recommended Soldering Pattern

(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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