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Kingbright ACSA56-41SEKWA-F01

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SURFACE MOUNT DISPLAY

Part Number: ACSA56-41SEKWA-F01

Super Bright Orange

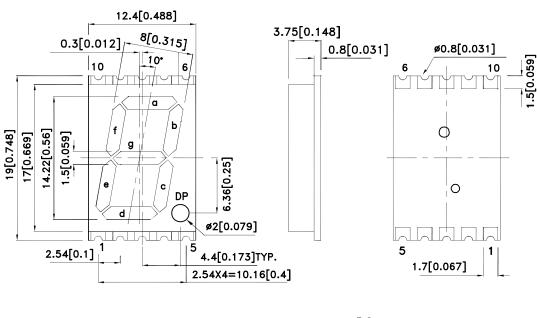
Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 400pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

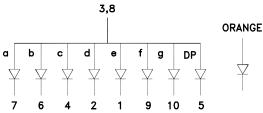
Description

The Super Bright Orange device is made with AlGalnP (on GaAs substrate) light emitting diode chip.

Package Dimensions& Internal Circuit Diagram











Notes:

- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
- 2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

3. The gap between the reflector and PCB shall not exceed 0.25mm.

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Datasheet of ACSA56-41SEKWA-F01 - DISPLAY 610NM ORN 1DIG 0.56" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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Selection Guide

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	2333.1643
ACSA56-41SEKWA-F01	Super Bright Orange (AlGaInP) White Diffused	White Diffused	31000	78000	Common Anode,Rt. Hand Decimal.
THOUSE TO ENTIRE OF		Wille Billasea	*14000	*23000	

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Orange	610		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	29		nm	IF=20mA
С	Capacitance	Super Bright Orange	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Orange	2.1	2.5	V	IF=20mA
lr	Reverse Current	Super Bright Orange		10	uA	VR=5V

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

 4. 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

Abbolato maximum ratingo at 171–20 0					
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				

Note:

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

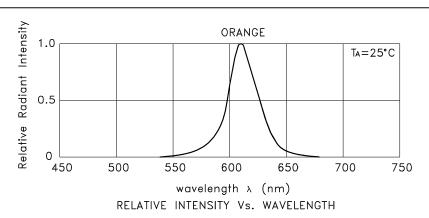
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^{1.} Luminous intensity/ luminous Flux: +/-15%.

* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

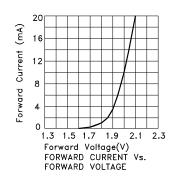


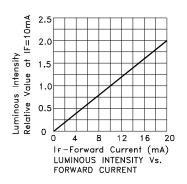
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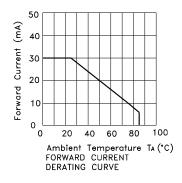


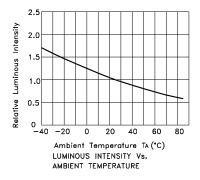
Super Bright Orange

ACSA56-41SEKWA-F01



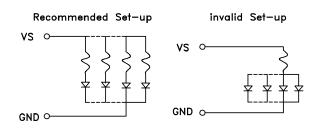






CIRCUIT DESIGN NOTES

- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



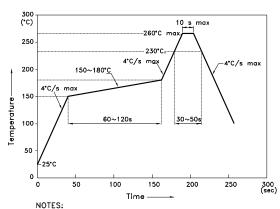
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Reflow Soldering Profile For Lead-free SMT Process.



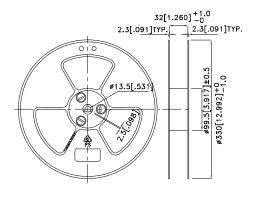
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

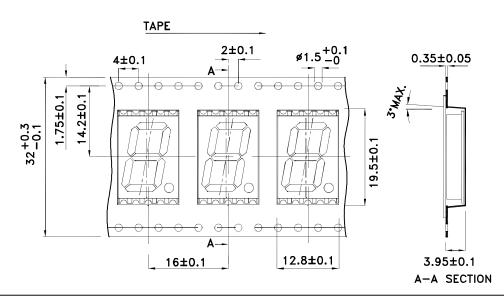
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

2.54X4=10.16 1.7 2.54

Reel Dimension

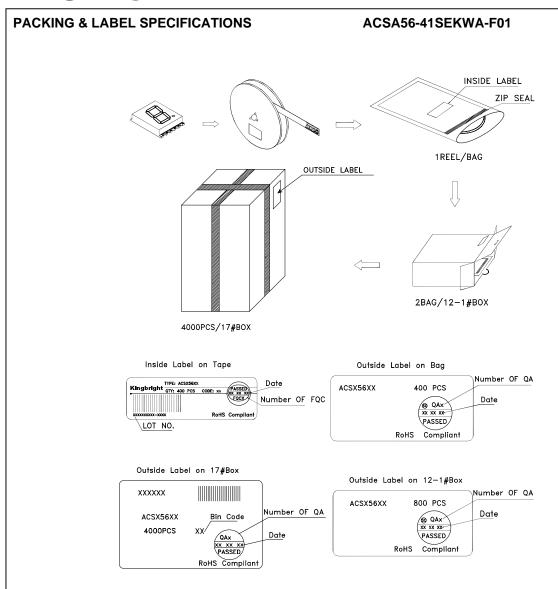


Tape Specifications (Units: mm)



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