

### **Excellent Integrated System Limited**

Stocking Distributor

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Kingbright ACDC04-41SEKWA-F01

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#### SURFACE MOUNT DISPLAY

Part Number: ACDC04-41SEKWA-F01

Super Bright Orange

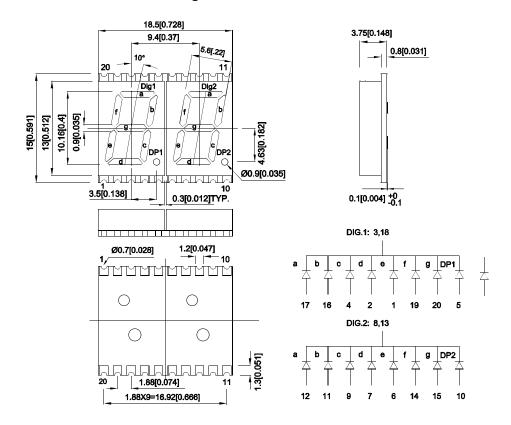
#### **Features**

- 0.4 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 250pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

### **Description**

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

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





SPEC NO: DSAG0250

1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.

**REV NO: V.12A** 

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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### **Distributor of Kingbright: Excellent Integrated System Limited**

Datasheet of ACDC04-41SEKWA-F01 - DISPLAY 610NM ORN 2DIG 0.4" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

## Kingbright

### **Selection Guide**

Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	2333
ACDC04-41SEKWA-F01	Super Bright Orange (AlGaInP)	White Diffused	21000	60000	Common Cathode, Rt. Hand Decimal.
AODOG-410ERWA-101	Caper Engine Grange (AlGaini )		*9000	*15000	

#### Note:

### Electrical / Optical Characteristics at TA=25°C

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

Parameter	Values	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		

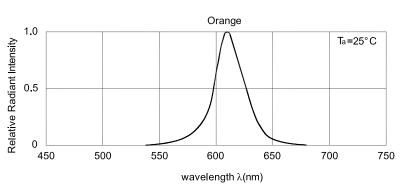
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<sup>1.</sup>Luminous intensity/ luminous Flux: +/-15%.

<sup>\*</sup>Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

<sup>1. 1/10</sup> Duty Cycle, 0.1ms Pulse Width.

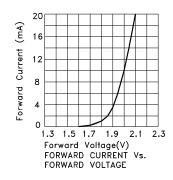


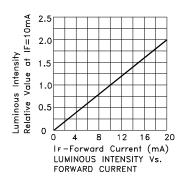


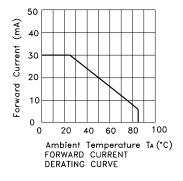
Relative Intensity Vs. Wavelength

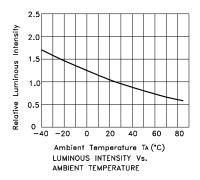
### **Super Bright Orange**

### ACDC04-41SEKWA-F01



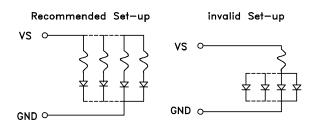






### CIRCUIT DESIGN NOTES

- 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.

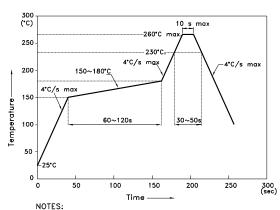


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### ACDC04-41SEKWA-F01

Reflow Soldering Profile For Lead-free SMT Process.



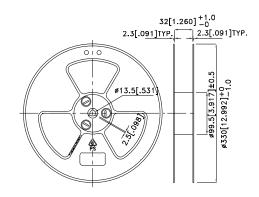
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.

  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.

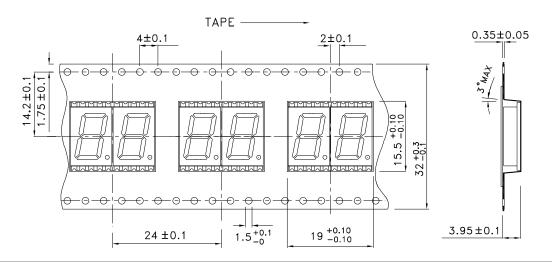
### Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

# 1.88X9=16.92 1.88X9=16.92 1.88

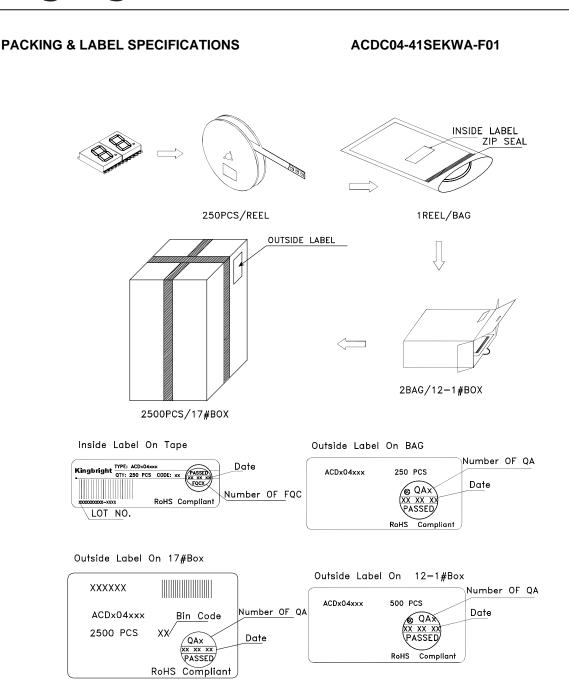
### **Reel Dimension**



### Tape Specifications (Units: mm)



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