

SURFACE MOUNT DISPLAY

Part Number: ACDC03-41SEKWA-F01

Super Bright Orange

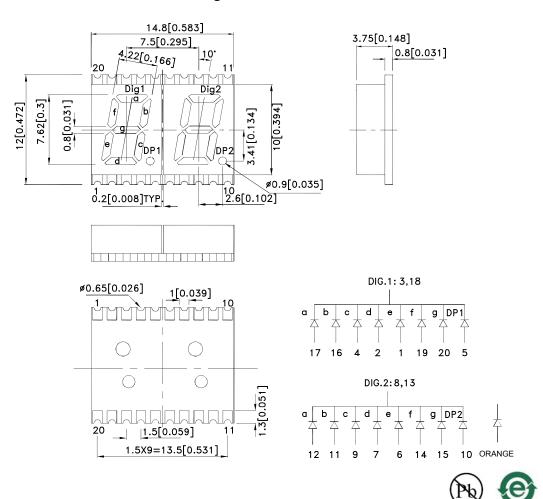
Features

- 0.3 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Package:300pcs/reel.
- Gray face, white segment.
- 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



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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 APPROVED: WYNEC
 CHECKED: Joe Lee
 DRAWN: Q.M.Chen
 ERP: 1352000333

Selection Guide

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
ACDC03-41SEKWA-F01	Super Bright Orange (AlGaInP)	White Diffused	21000	46000	Common Cathode, Rt. Hand Decimal.
	oapo: 2.igit olaligo (raoalii)	TTIMO DINGGOG	*5600	*11000	

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	I==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.

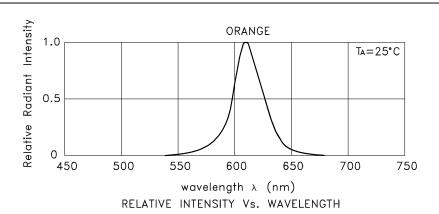
Absolute Maximum Ratings at TA=25°C

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

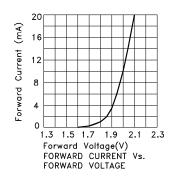
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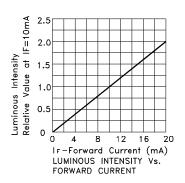
^{1.}Luminous intensity/ luminous Flux: +/-15%.
*Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

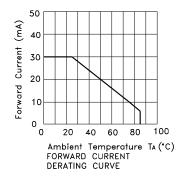


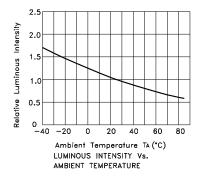
Super Bright Orange

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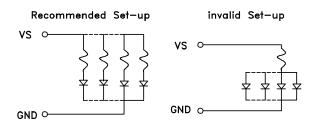






CIRCUIT DESIGN NOTES

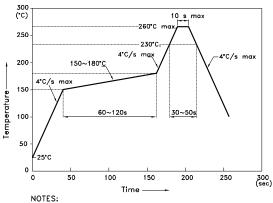
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



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Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

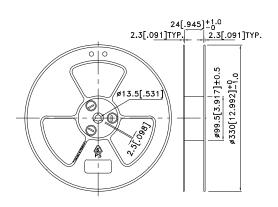
 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 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.

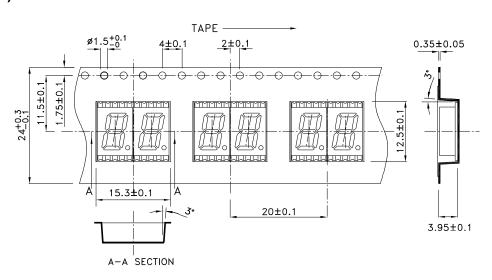
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

1.5X9=13.5

Reel Dimension



Tape Specifications (Units: mm)



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PACKING & LABEL SPECIFICATIONS ACDC03-41SEKWA-F01 INSIDE LABEL ZIP SEAL 1REEL/BAG 300PCS/REEL OUTSIDE LABEL 2BAG/12-1#BOX 3000PCS/17#B0X Outside Label On Bag Inside Label On Tape Number OF QA gbright TYPE: ACDX03XXX QTY: 300 PCS CODE: xx PASSED XX XX XX Date Date QAX Number OF FQC RoHS Compliant LOT NO. RoHS Compliant Outside Label On 17#Box Outside Label On 12-1#Box XXXXXX Number OF QA N<u>umber OF</u> QA Date ACDX03XXX O QAS 3000 PCS ASSED Date OAX PASSED RoHS Complian

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RoHS Compliant

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