

#### SURFACE MOUNT DISPLAY

Part Number: ACDC03-41CGKWA-F01 Green

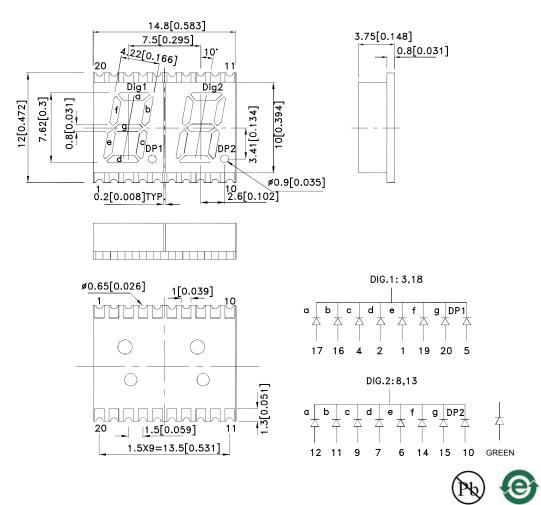
#### **Features**

- 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 Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

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



#### Notes

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- 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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 DRAWN: Q.M.Chen
 ERP: 1352000330

#### **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	2000paid
ACDC03-41CGKWA-F01	Green (AlGaInP)	White Diffused	3600	12000	Common Cathode, Rt.
A00000-41001(WA-101	Green (Albama )	Willie Billasea	*1400	*3100	Hand Decimal.

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

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions		
λpeak	Peak Wavelength	Green	574		nm	IF=20mA		
λD [1]	Dominant Wavelength	Green	570		nm	IF=20mA		
Δλ1/2	Spectral Line Half-width	Green	20		nm	IF=20mA		
С	Capacitance	Green	15		pF	VF=0V;f=1MHz		
VF [2]	Forward Voltage	Green	2.1	2.5	V	IF=20mA		
lr	Reverse Current	Green		10	uA	V <sub>R</sub> =5V		

#### Notes:

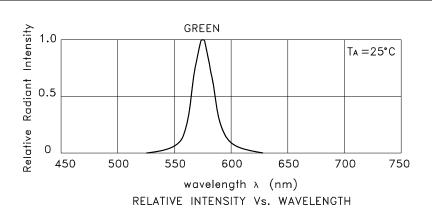
- 1.Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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

Parameter	Green	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

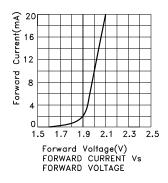
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

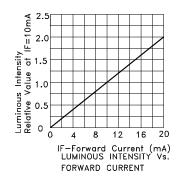
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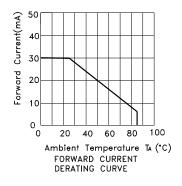


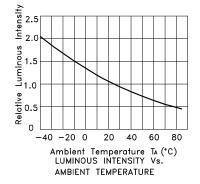
#### Green

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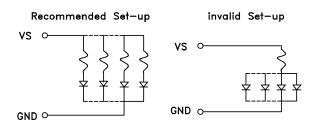






#### CIRCUIT DESIGN NOTES

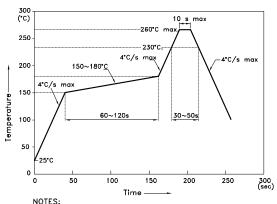
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



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#### ACDC03-41CGKWA-F01

Reflow Soldering Profile For Lead-free SMT Process.



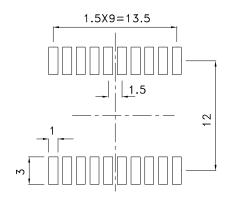
- NOTES:

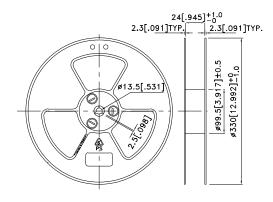
  1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

  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.

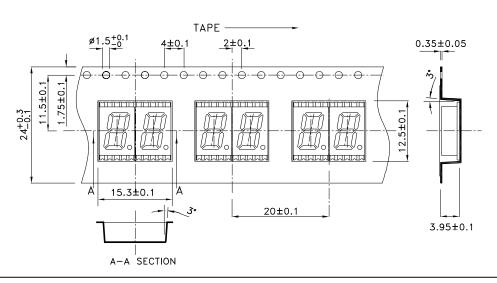
## Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

### Reel Dimension





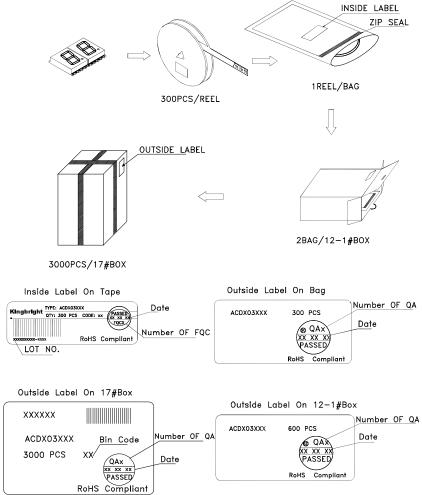
## Tape Specifications (Units: mm)



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# PACKING & LABEL SPECIFICATIONS

#### ACDC03-41CGKWA-F01



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