

## **Excellent Integrated System Limited**

Stocking Distributor

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Kingbright ACDC03-41SGWA-F01

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#### SURFACE MOUNT DISPLAY

Part Number: ACDC03-41SGWA-F01

Super Bright Green

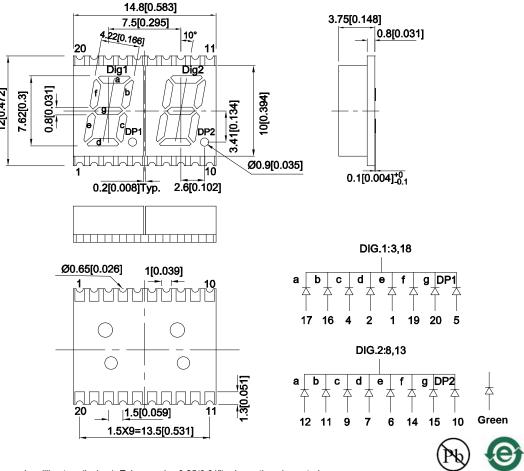
#### **Features**

- 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 Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

#### Package Dimensions& Internal Circuit Diagram



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

Datasheet of ACDC03-41SGWA-F01 - DISPLAY 565NM GRN 2DIG 0.3" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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#### **Selection Guide**

Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
ACDC03-41SGWA-F01	Super Bright Green (GaP)	White Diffused	1400	3500	Common Cathode, Rt. Hand Decimal.
			*560	*1200	

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

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=10mA
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=10mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Green	2	2.5	V	IF=10mA
lr	Reverse Current	Super Bright Green		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	Values	Units	
Power dissipation	62.5	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	rating / Storage Temperature -40°C To +85°C		

#### Note:

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

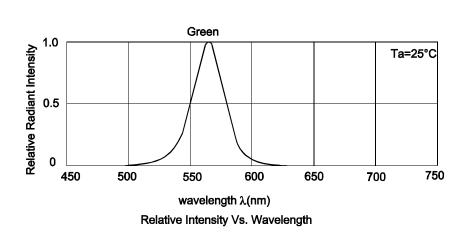
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<sup>2.</sup> Luminous intensity / luminous Flux: + / -15%.

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

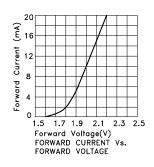


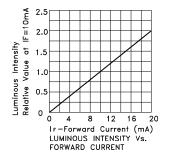
## **Kingbright**

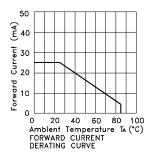


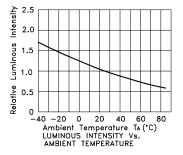
#### **Super Bright Green**

#### **ACDC03-41SGWA-F01**



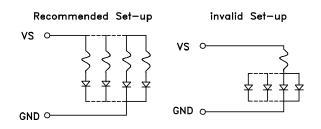






#### CIRCUIT DESIGN NOTES

- 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.



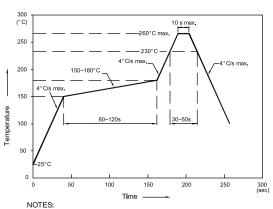
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#### ACDC03-41SGWA-F01

Reflow Soldering Profile For Lead-free SMT Process.



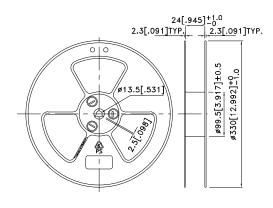
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed to high temperature
- to high temperature.
  3.Number of reflow process shall be 2 times or less.

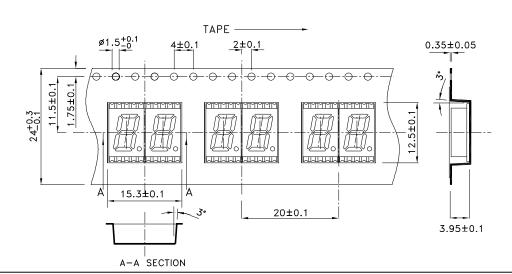
## Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

# 

## Tape Specifications (Units: mm)

#### **Reel Dimension**



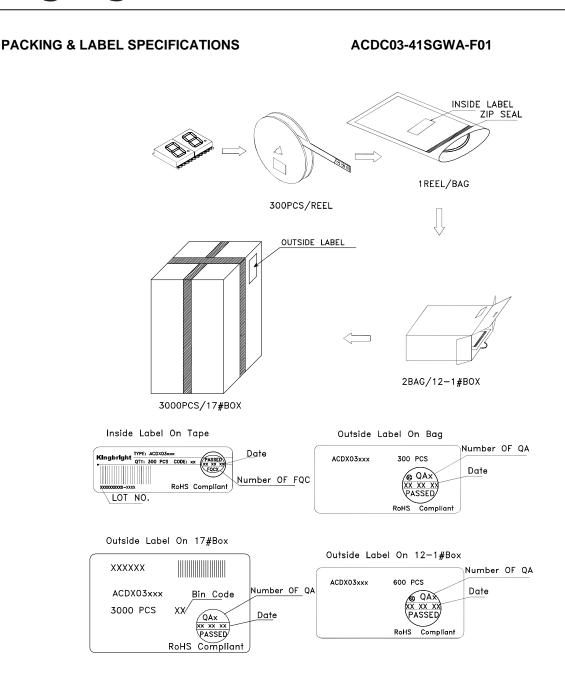


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