

### **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Kingbright ACSA02-41CGKWA-F01

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



**Distributor of Kingbright: Excellent Integrated System Limited** Datasheet of ACSA02-41CGKWA-F01 - DISPLAY 574NM GRN 1DIG 0.2" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

### **Kingbright**

#### SURFACE MOUNT DISPLAY

GaAs substrate Light Emitting Diode.

Description

Part Number: ACSA02-41CGKWA-F01

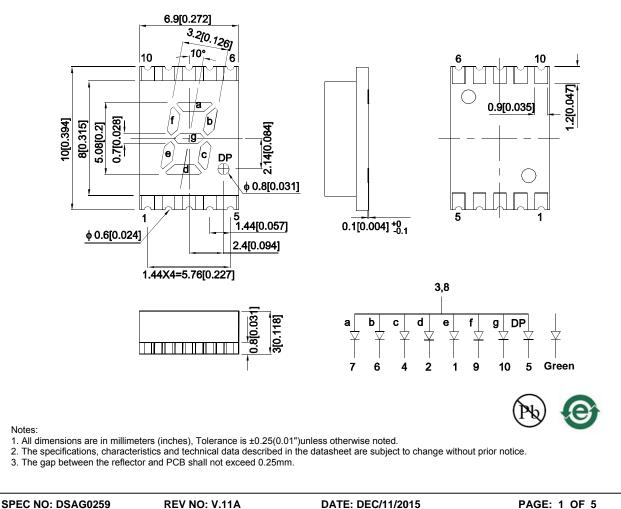
The Green source color devices are made with AlGaInP on

Green

#### Features

- 0.2inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package : 650pcs / reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

#### Package Dimensions& Internal Circuit Diagram





## **Kingbright**

#### Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
ACSA02-41CGKWA- F01	Green (AlGaInP)	White Diffused	3600	12000	Common Anode, Rt. Hand Decimal.
			*2200	*4300	

Notes:

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	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	574		nm	IF=10mA
λD [1]	Dominant Wavelength	Green	570		nm	I⊧=10mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	I⊧=10mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green	2	2.5	V	I⊧=10mA
lr	Reverse Current	Green		10	uA	VR=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

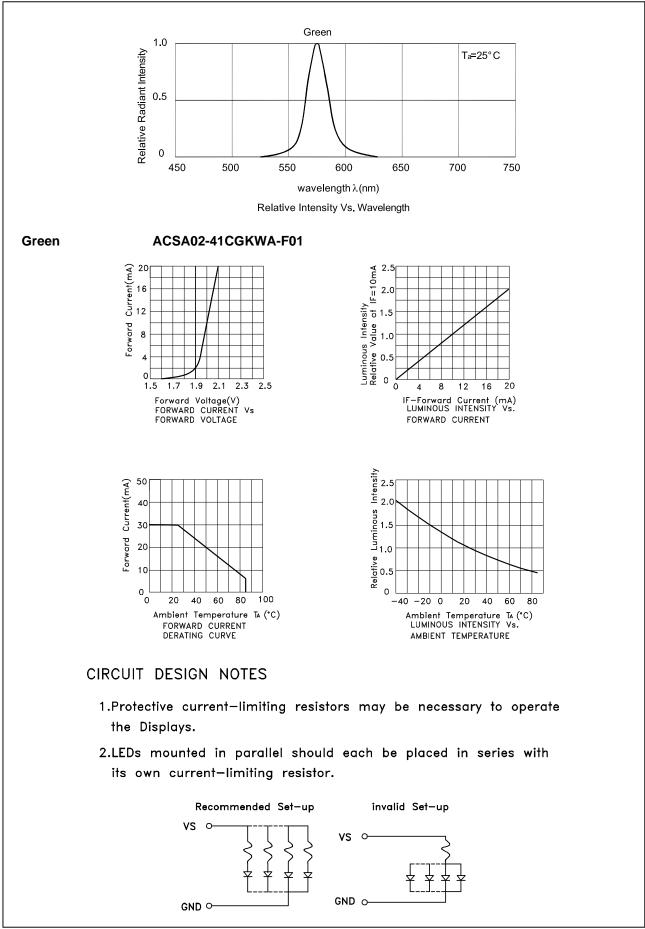
Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

Note:

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



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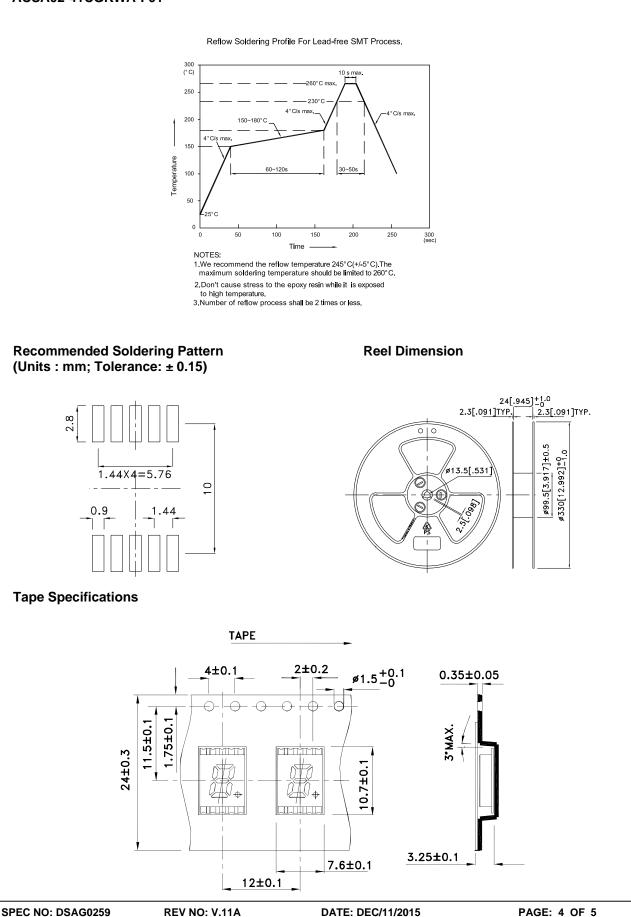


REV NO: V.11A



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#### ACSA02-41CGKWA-F01

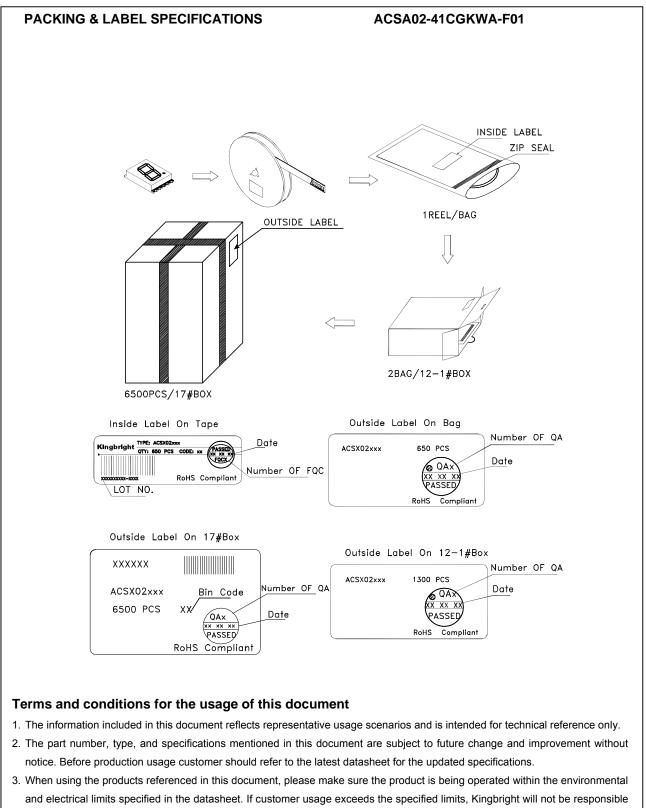




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for any subsequent issues.



- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

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