

Excellent Integrated System Limited

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Kingbright ACSC02-41CGKWA-F01

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SURFACE MOUNT DISPLAY

Part Number: ACSC02-41CGKWA-F01

Green

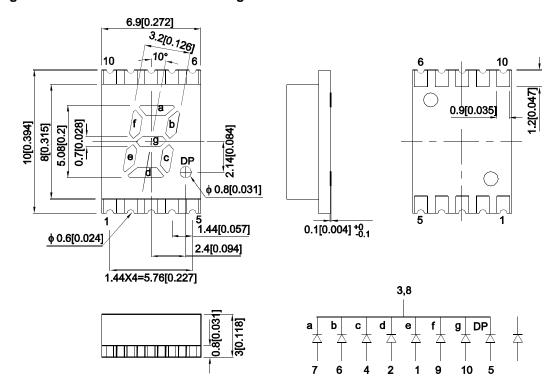
Features

- 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.

Description

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

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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Datasheet of ACSC02-41CGKWA-F01 - DISPLAY 574NM GRN 1DIG 0.2" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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Selection Guide

Part No.	Emitting Color (Material)	mi	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
ACSC02-41CGKWA- F01	Green (AlGaInP)	White Diffused	3600	12000	Common Cathode, Rt. Hand Decimal.
			*2200	*4300	

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	IF=10mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	IF=10mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.0	2.5	V	IF=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		

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

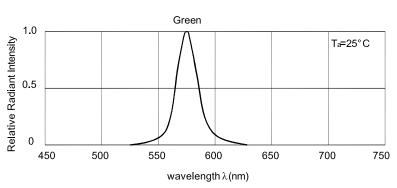
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^{1.} Luminous intensity / luminous Flux: +/-15%.

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



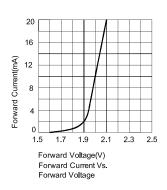
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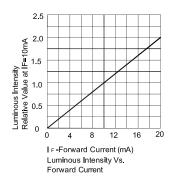


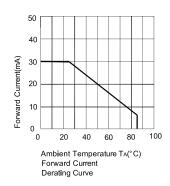
Relative Intensity Vs. Wavelength

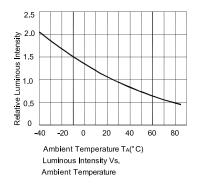
Green

ACSC02-41CGKWA-F01



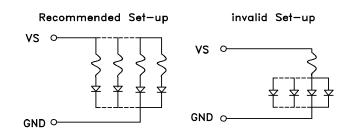






CIRCUIT DESIGN NOTES

- 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.



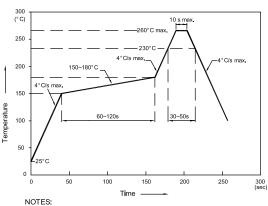
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Reflow Soldering Profile For Lead-free SMT Process.



- 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.

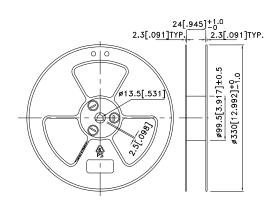
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

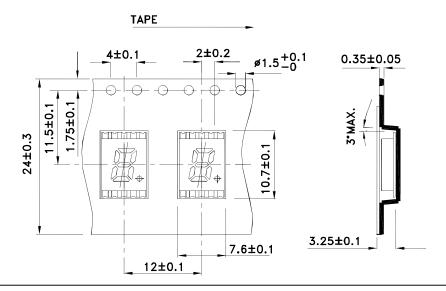
1.44X4=5.76 0.9 1.44

Tape Specifications

(Units: mm)

Reel Dimension



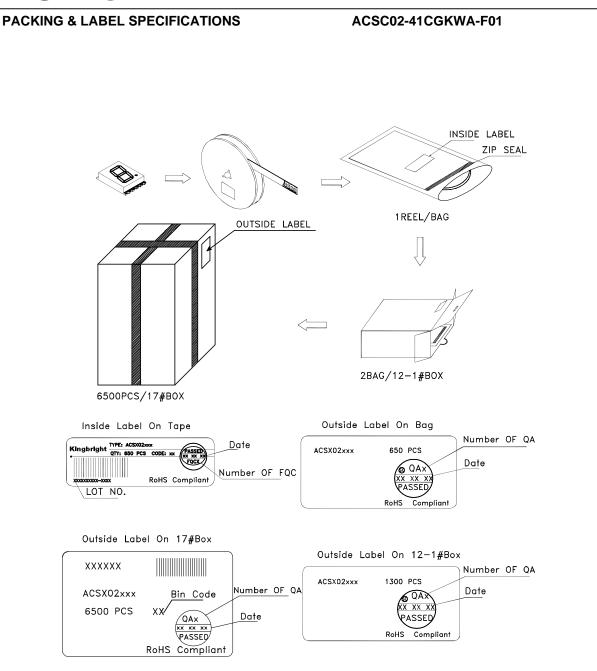


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