

SURFACE MOUNT DISPLAY

Part Number: ACPDA04-41CGKWA Green

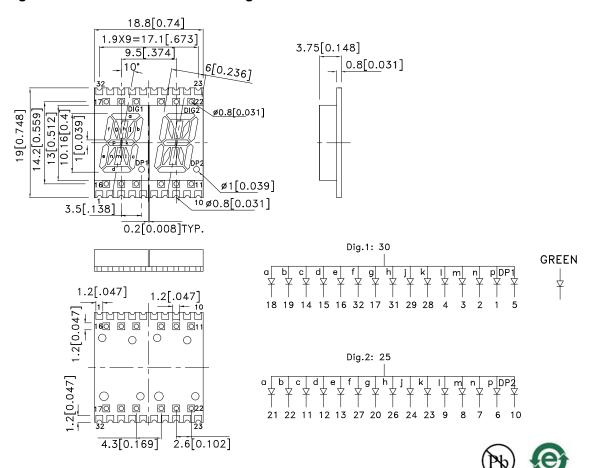
Features

- 0.4 inch character height.
- Low current operation.
- High contrast and light output.
- Categorized for luminous intensity.
- · Mechanically rugged.
- Gray face, white segment.
- Package :250pcs / Reel.
- Moisture sensitivity level : level 2a.
- Halogen Free.
- 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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 REV NO: V.4A
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 APPROVED: WYNEC
 CHECKED: Joe Lee
 DRAWN: J.Yu
 ERP: 1362000051

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
T untiller			Min.	Тур.	
ACPDA04-41CGKWA	Green (AlGalnP)	White Diffused	5600	11000	Common Anode, Rt. Hand Decimal.
Not brior 4100kW/k			*1400	*3100	

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
IR	Reverse Current	Green		10	uA	V _R =5V

Notes:

- Navelength: +/-1nm.
 Forward Voltage: +/-0.1V.
 Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

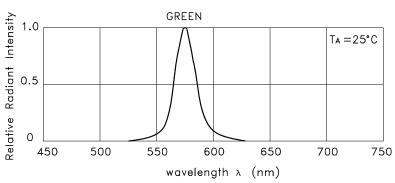
Parameter	Green	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

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

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

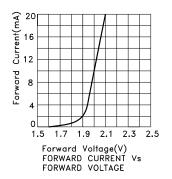
* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

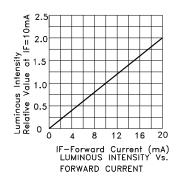


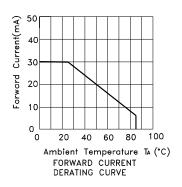
RELATIVE INTENSITY Vs. WAVELENGTH

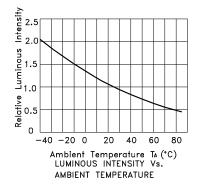
Green

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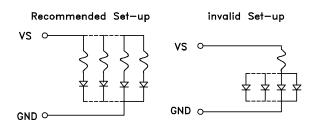






CIRCUIT DESIGN NOTES

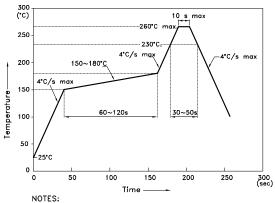
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



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Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

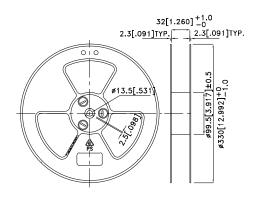
 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 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)

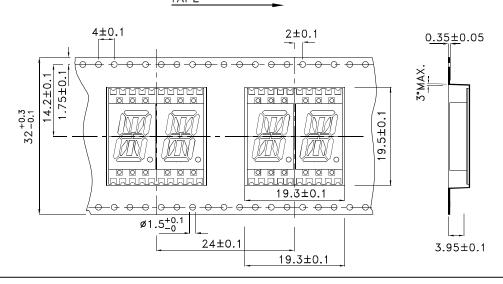
1.9X9=17.1 2.6X2=5.2 2.6 4.3 1.3 2.6 4.3 1.3 1.9 1.2

Reel Dimension

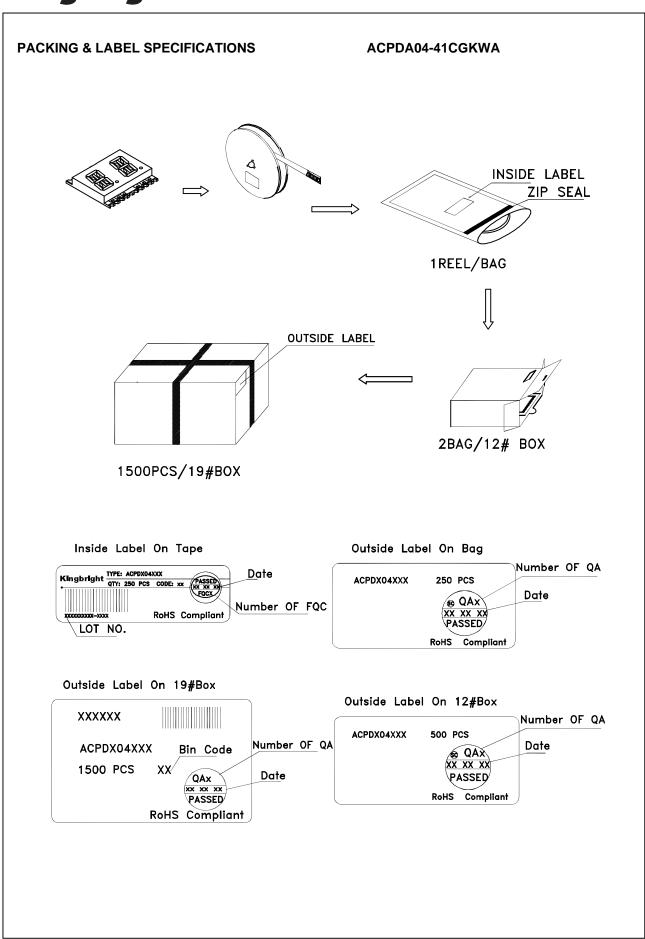


Tape Specifications (Units: mm)

TAPE



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