

SURFACE MOUNT DISPLAY

Part Number: ACDC04-41CGKWA-F01 Green

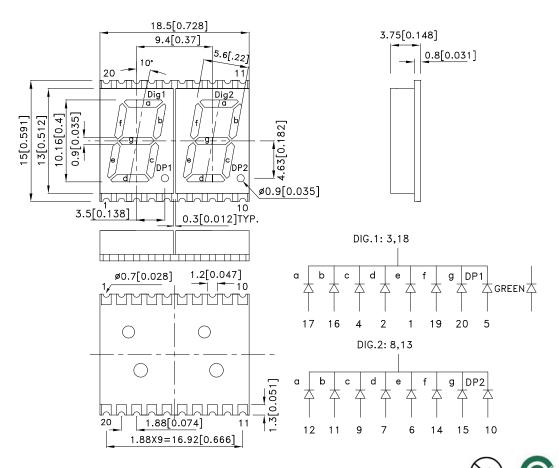
Features

- 0.4 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 250pcs/ 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.

 SPEC NO: DSAG0248
 REV NO: V.11A
 DATE: JAN/12/2015
 PAGE: 1 OF 5

 APPROVED: WYNEC
 CHECKED: Joe Lee
 DRAWN: Q.M.Chen
 ERP: 1352000329

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
ACDC04-41CGKWA-F01 Gr	Green (AlGaInP)	White Diffused	5600	11000	Common Cathode, Rt. Hand Decimal
			2200*	4100*	

- 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	VR=5V

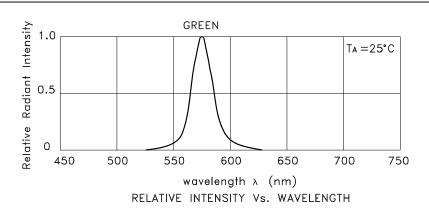
- 1.Wavelength: +/-1nm.
 2.Forward Voltage: +/-0.1V.
 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.
 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	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		

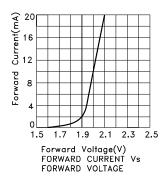
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

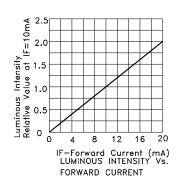
SPEC NO: DSAG0248 **REV NO: V.11A** DATE: JAN/12/2015 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED:** Joe Lee DRAWN: Q.M.Chen ERP: 1352000329

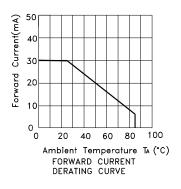


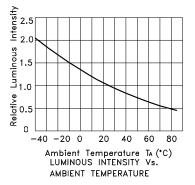
Green

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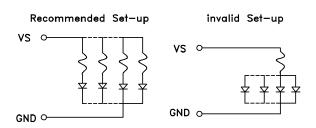






CIRCUIT DESIGN NOTES

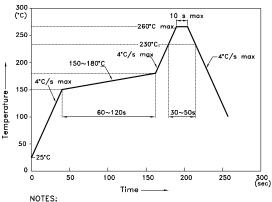
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



SPEC NO: DSAG0248 APPROVED: WYNEC REV NO: V.11A CHECKED: Joe Lee DATE: JAN/12/2015 DRAWN: Q.M.Chen PAGE: 3 OF 5 ERP: 1352000329

ACDC04-41CGKWA-F01

Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

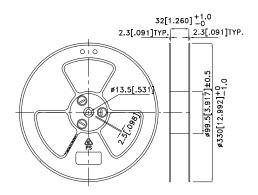
 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 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.

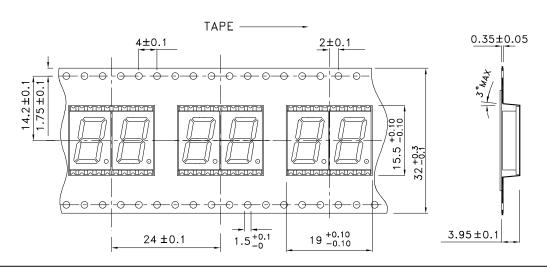
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

1.88X9=16.92 1.88X9=16.92 1.88X9=16.92

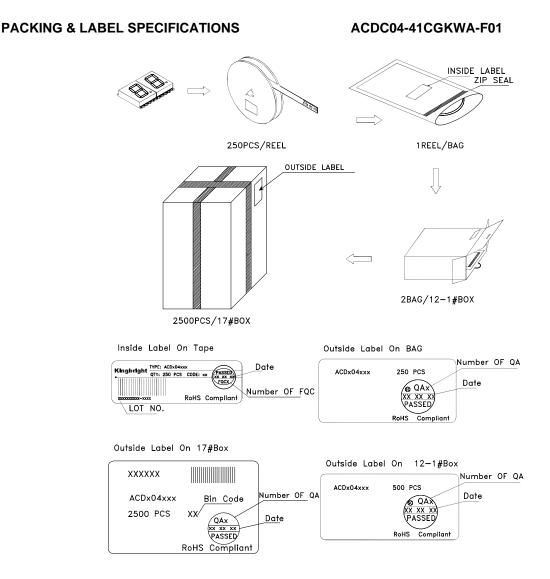
Reel Dimension



Tape Specifications (Units: mm)



SPEC NO: DSAG0248 APPROVED: WYNEC REV NO: V.11A CHECKED: Joe Lee DATE: JAN/12/2015 DRAWN: Q.M.Chen PAGE: 4 OF 5 ERP: 1352000329



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