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SURFACE MOUNT DISPLAY

Part Number: ACDA56-41QBWA/D-F01

ATTENTION **OBSERVE PRECAUTIONS** FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Blue

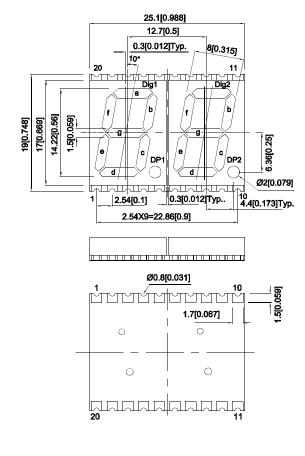
Features

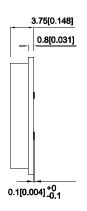
- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 200pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

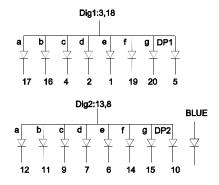
Descriptions

- The Blue source color devices are made with InGaN Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

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.

SPEC NO: DSAJ8918 **REV NO: V.7B DATE: DEC/23/2015** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED:** Joe Lee DRAWN: L.Q.Xie ERP: 1352000563

Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (uc @ 10	,	Description
			Min.	Тур.	-
ACDA56-41QBWA/D- F01	Blue (InGaN)	White Diffused	5600	15000	Common Anode, Rt. Hand Decimal.

- 1. Luminous intensity / luminous Flux: +/-15%.
 2. 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	Blue	460		nm	IF=10mA
λD [1]	Dominant Wavelength	Blue	465		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=10mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.0	4.0	V	IF=10mA
lr	Reverse Current	Blue		50	uA	VR=5V

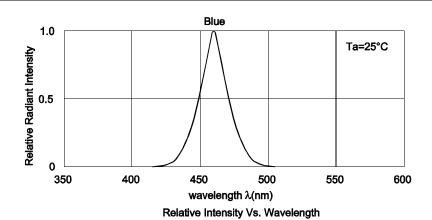
- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.
- Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Electrostatic Discharge Threshold (HBM)	250	V	
Operating / Storage Temperature	-40°C To +85°C		

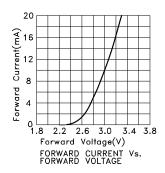
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

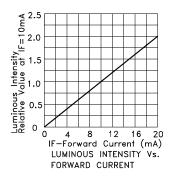
SPEC NO: DSAJ8918 **REV NO: V.7B DATE: DEC/23/2015** PAGE: 2 OF 5 **APPROVED:** Wynec **CHECKED:** Joe Lee DRAWN: L.Q.Xie ERP: 1352000563

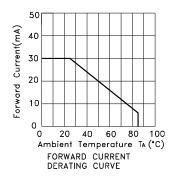


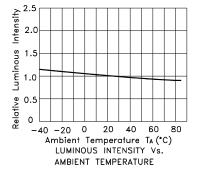
Blue

ACDA56-41QBWA/D-F01



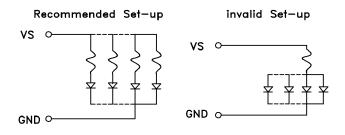






CIRCUIT DESIGN NOTES

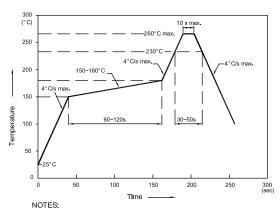
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



SPEC NO: DSAJ8918 APPROVED: Wynec REV NO: V.7B CHECKED: Joe Lee DATE: DEC/23/2015 DRAWN: L.Q.Xie PAGE: 3 OF 5 ERP: 1352000563

ACDA56-41QBWA/D-F01

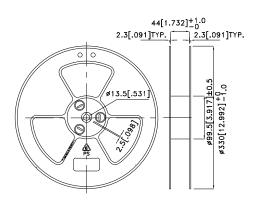




- 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
- 2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
- 3.Number of reflow process shall be 2 times or less.

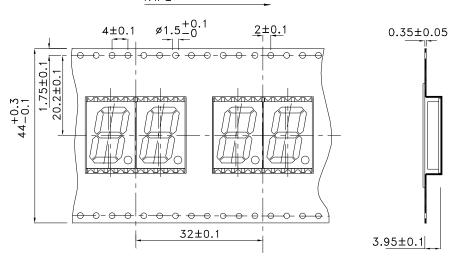
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

Reel Dimension



Tape Specifications (Units: mm)

TAPE



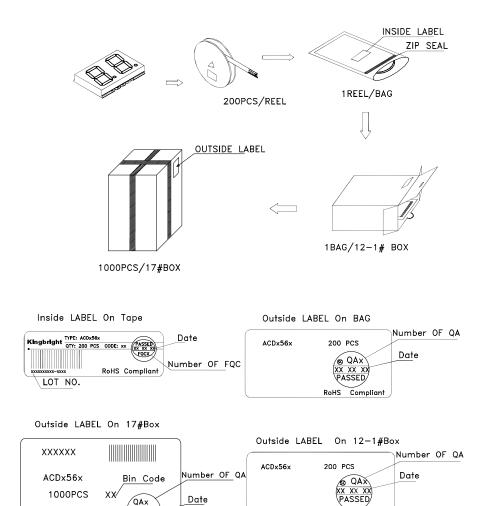
SPEC NO: DSAJ8918 APPROVED: Wynec REV NO: V.7B CHECKED: Joe Lee DATE: DEC/23/2015 DRAWN: L.Q.Xie

PAGE: 4 OF 5 ERP: 1352000563

PACKING & LABEL SPECIFICATIONS

ACDA56-41QBWA/D-F01

Compliant



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PASSED RoHS Compliant

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 SPEC NO: DSAJ8918
 REV NO: V.7B
 DATE: DEC/23/2015
 PAGE: 5 OF 5

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