

SURFACE MOUNT DISPLAY

Part Number: KCDA03-123 Green

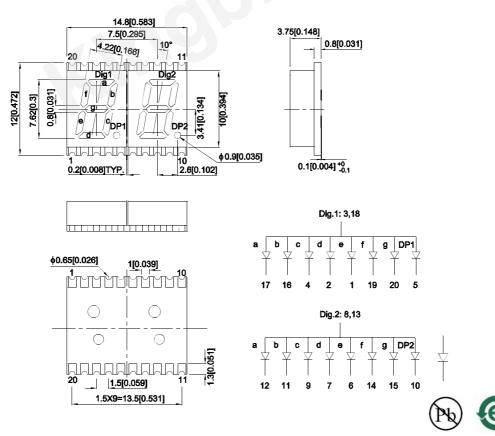
Features

- 0.3 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Package :300pcs / reel.
- Gray face, white segment.
- 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



- 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: DSAG7167 REV NO: V.11A **DATE: JUN/18/2016** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED:** Joe Lee DRAWN: L.T.Zhang ERP: 1352000345

Selection Guide

Part No.	Part No. Emitting Color (Material)		Iv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
KCDA03-123	Green (AlGalnP)	White Diffused	3600	12000	Common Anode, Rt. Hand Decimal.
NODA03-123			*1400	*3100	

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	574		nm	I==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	2.0	2.5	V	IF=10mA
lr	Reverse Current	Green		10	uA	V _R =5V

Notes:

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

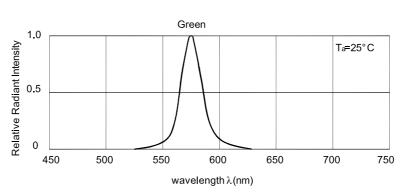
Absolute Maximum Ratings at TA=25°C

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.
 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

SPEC NO: DSAG7167 **REV NO: V.11A** DATE: JUN/18/2016 PAGE: 2 OF 5 **APPROVED: Wynec CHECKED:** Joe Lee DRAWN: L.T.Zhang ERP: 1352000345

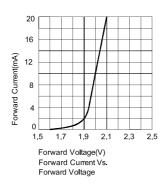
 ^{1.}Luminous intensity/ luminous Flux: +/-15%.
 *Luminous intensity value is traceable to CIE127-2007 standards.

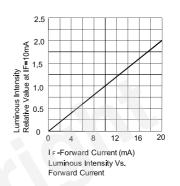


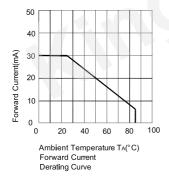
Relative Intensity Vs. Wavelength

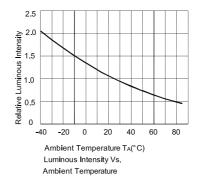
Green

KCDA03-123



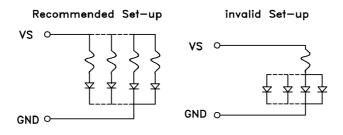




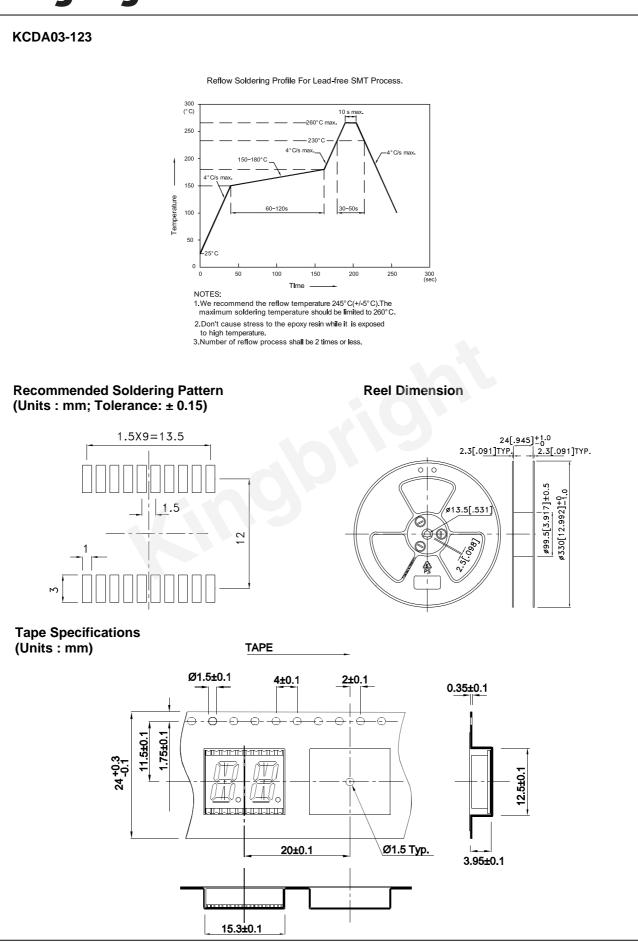


CIRCUIT DESIGN NOTES

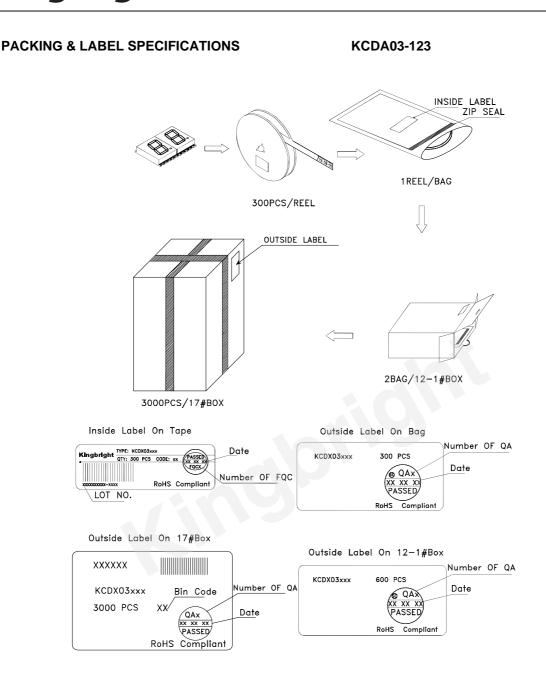
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



SPEC NO: DSAG7167 APPROVED: Wynec REV NO: V.11A CHECKED: Joe Lee DATE: JUN/18/2016 DRAWN: L.T.Zhang PAGE: 3 OF 5 ERP: 1352000345



SPEC NO: DSAG7167 APPROVED: Wynec REV NO: V.11A CHECKED: Joe Lee DATE: JUN/18/2016 DRAWN: L.T.Zhang PAGE: 4 OF 5 ERP: 1352000345



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 SPEC NO: DSAG7167
 REV NO: V.11A
 DATE: JUN/18/2016
 PAGE: 5 OF 5

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