

SURFACE MOUNT DISPLAY

Part Number: KCSC03-123 Green

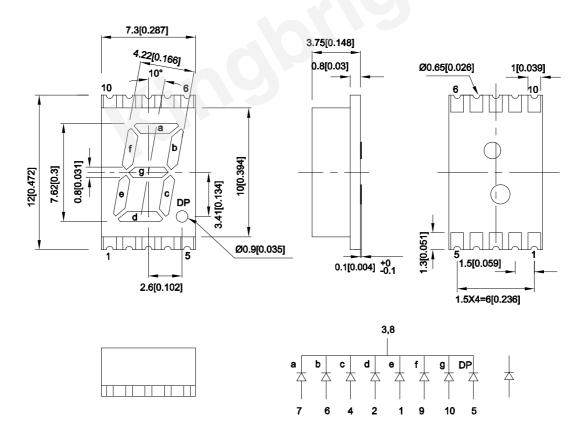
Features

- 0.3 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 550pcs / 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





- 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: DSAG1624 **REV NO: V.9A DATE: JUN/18/2016** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED:** Joe Lee DRAWN: L.T.Zhang ERP: 1351000432

Selection Guide

Part No.	rt No. Emitting Color (Material) Lens Type		lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
K00000 400	Green (AlGaInP) White	White Diffused	3600	12000	Common Cathode, Rt. Hand Decimal.
KCSC03-123			*1400	*3100	

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

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	2.5	V	IF=10mA
lr	Reverse Current	Green		10	uA	V _R =5V

Notes:

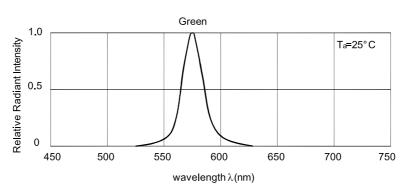
- 1. Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to CIE127-2007 standards.
- 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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		

- 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.

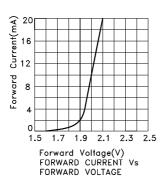
SPEC NO: DSAG1624 **REV NO: V.9A** DATE: JUN/18/2016 PAGE: 2 OF 5 **APPROVED: Wynec CHECKED:** Joe Lee DRAWN: L.T.Zhang ERP: 1351000432

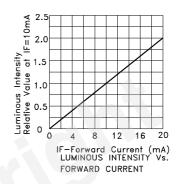


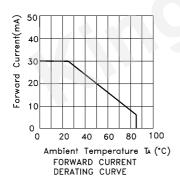
Relative Intensity Vs. Wavelength

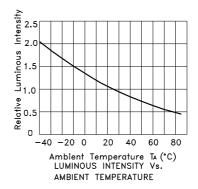
Green

KCSC03-123



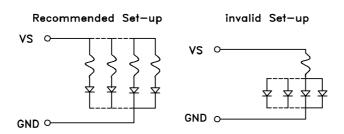






CIRCUIT DESIGN NOTES

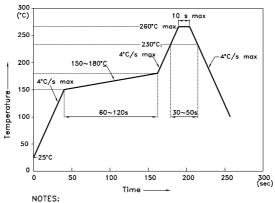
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



SPEC NO: DSAG1624 APPROVED: Wynec REV NO: V.9A CHECKED: Joe Lee DATE: JUN/18/2016 DRAWN: L.T.Zhang PAGE: 3 OF 5 ERP: 1351000432

KCSC03-123

Reflow Soldering Profile For Lead-free SMT Process.



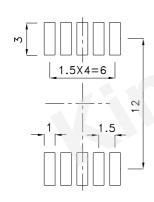
- NOTES:

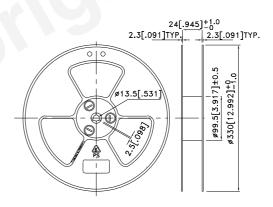
 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

 3.Number of reflow process shall be 2 times or less.

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

Reel Dimension





3.95±0.1

Tape Specifications (Units: mm)

4±0.1 0.35±0.1 Ø1.5±0.1 2±0.1 11.5±0.1 1.75±0.1 12.5±0.1 24 ^{+0.3} -0.1 Ø1.5 Typ.

TAPE

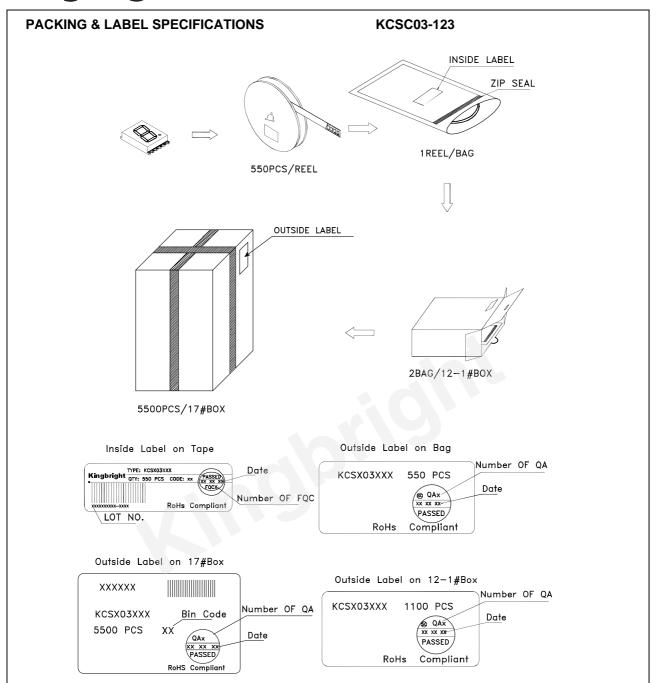
7.8±0.1

12±0.1

SPEC NO: DSAG1624 **APPROVED: Wynec**

REV NO: V.9A CHECKED: Joe Lee **DATE: JUN/18/2016** DRAWN: L.T.Zhang

PAGE: 4 OF 5 ERP: 1351000432



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 SPEC NO: DSAG1624
 REV NO: V.9A
 DATE: JUN/18/2016
 PAGE: 5 OF 5

 APPROVED: Wynec
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