

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Kingbright ACDC03-41SYKWA-F01

For any questions, you can email us directly: sales@integrated-circuit.com



SURFACE MOUNT DISPLAY

Part Number: ACDC03-41SYKWA-F01

Super Bright Yellow

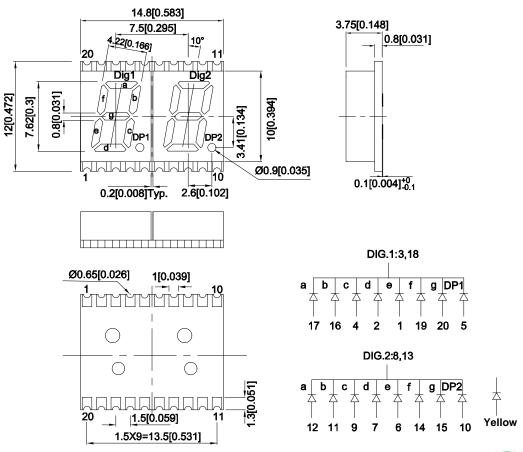
Features

- 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 Super Bright Yellow device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

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: DSAG0236 **REV NO: V.13A DATE: JAN/04/2016** PAGE: 1 OF 5



Distributor of Kingbright: Excellent Integrated System Limited

Datasheet of ACDC03-41SYKWA-F01 - DISPLAY 590NM YLW 2DIG 0.3" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Kingbright

Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	2000.1940.11
ACDC03-41SYKWA-F01	Super Bright Yellow (AlGaInP)	White Diffused	21000	36000	Common Cathode, Rt. Hand Decimal.
A05000-41011WA-101	Caper Englit Follow (Alcalini)	Wille Billused	*5600	*13000	

Note:

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	IF=10mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=10mA
С	Capacitance	Super Bright Yellow	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	1.95	2.5	V	IF=10mA
lr	Reverse Current	Super Bright Yellow		10	uA	Vr=5V

Notes:

- 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

gg						
Parameter	Values	Units				
Power dissipation	75	mW				
DC Forward Current	30	mA				
Peak Forward Current [1]	175	mA				
Reverse Voltage	5	V				
Operating / Storage Temperature	-40°C To +85°C					

Note

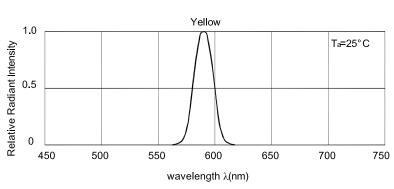
SPEC NO: DSAG0236 REV NO: V.13A DATE: JAN/04/2016 PAGE: 2 OF 5

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

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

^{1. 1/10} Duty Cycle, 0.1ms Pulse Width.

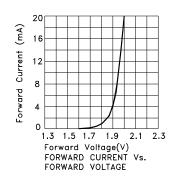


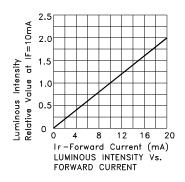


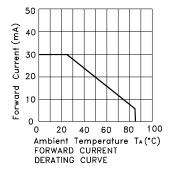
Relative Intensity Vs. Wavelength

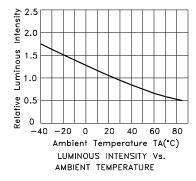
Super Bright Yellow

ACDC03-41SYKWA-F01



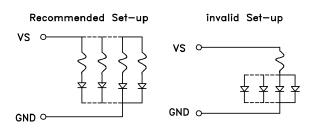






CIRCUIT DESIGN NOTES

- 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.

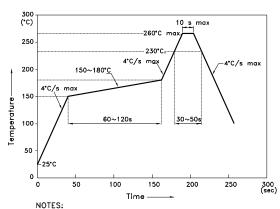


SPEC NO: DSAG0236 REV NO: V.13A DATE: JAN/04/2016 PAGE: 3 OF 5



ACDC03-41SYKWA-F01

Reflow Soldering Profile For Lead-free SMT Process.



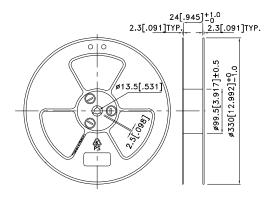
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

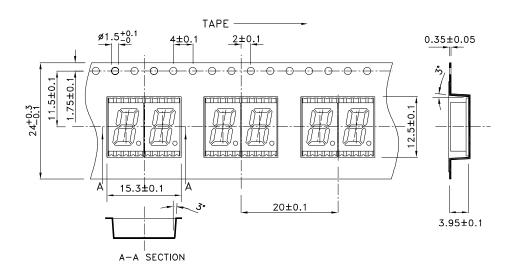
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

1.5X9 = 13.51.5

Reel Dimension



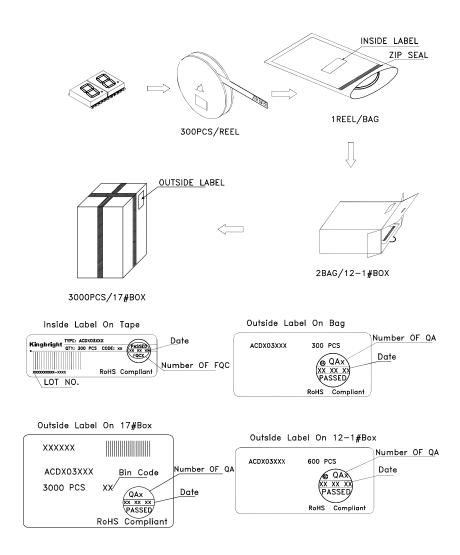
Tape Specifications (Units: mm)



REV NO: V.13A SPEC NO: DSAG0236 **DATE: JAN/04/2016** PAGE: 4 OF 5

PACKING & LABEL SPECIFICATIONS

ACDC03-41SYKWA-F01



Terms and conditions for the usage of this document

- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
- 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If customer usage exceeds the specified limits, Kingbright will not be responsible for any subsequent issues.
- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

SPEC NO: DSAG0236 REV NO: V.13A DATE: JAN/04/2016 PAGE: 5 OF 5