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Kingbright ACDA02-41SYKWA-F01

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SURFACE MOUNT DISPLAY

Part Number: ACDA02-41SYKWA-F01

Super Bright Yellow

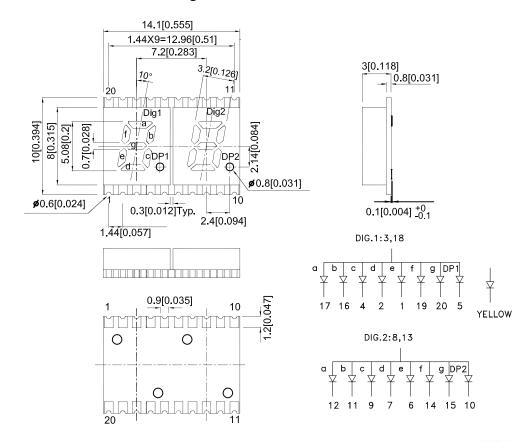
Features

- 0.2 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



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.

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Datasheet of ACDA02-41SYKWA-F01 - DISPLAY 590NM YLW 2DIG 0.2" 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.	•
ACDA02-41SYKWA-F01	Super Bright Yellow (AlGaInP)	White Diffused	21000	50000	Common Anode, Rt. Hand Decimal.
			*5600	*15000	

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	V _R =5V

- 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	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:

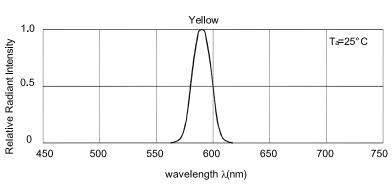
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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

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

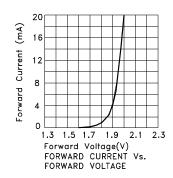


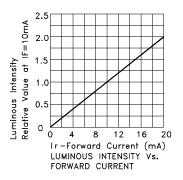


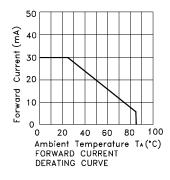
Relative Intensity Vs. Wavelength

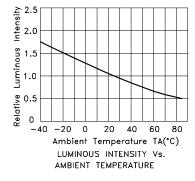
Super Bright Yellow

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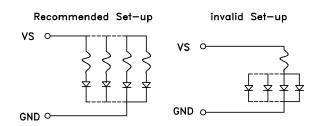






CIRCUIT DESIGN NOTES

- 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.

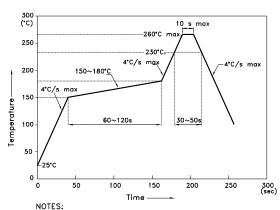


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Reflow Soldering Profile For Lead-free SMT Process.



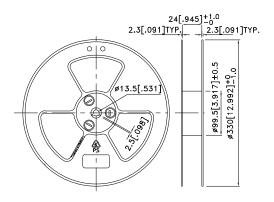
- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

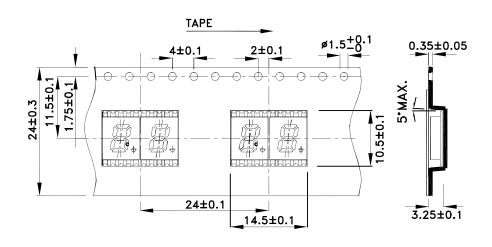
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

1.44 1.44X9=12.96 0.9

Reel Dimension



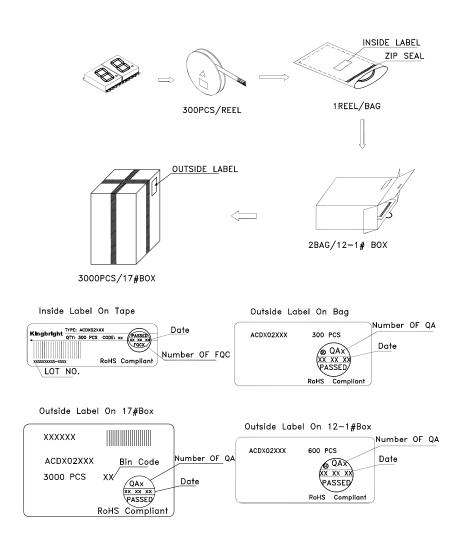
Tape Specifications (Units: mm)



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PACKING & LABEL SPECIFICATIONS

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