

SURFACE MOUNT DISPLAY

Part Number: ACDA56-41SYKWA-F01

Super Bright Yellow

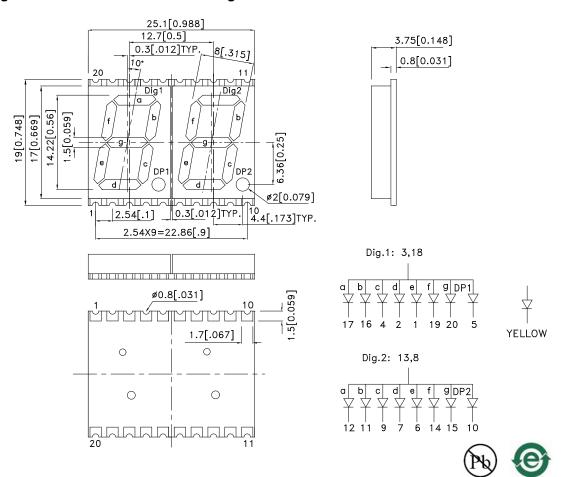
Features

- 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.

Description

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

Package Dimensions& Internal Circuit Diagram



Notes:

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1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.

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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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Selection Guide

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	2000 (p .101)
ACDA56-41SYKWA-F01	Super Bright Yellow (AlGaInP)	White Diffused	31000	76000	Common Anode, Rt. Hand Decimal.
			14000*	29000*	

Electrical / Optical Characteristics at TA=25°C

Liectrical / Optical Characteristics at TA=25 C									
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions			
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	IF=20mA			
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=20mA			
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=20mA			
С	Capacitance	Super Bright Yellow	20		pF	VF=0V;f=1MHz			
VF [2]	Forward Voltage	Super Bright Yellow	2.0	2.5	V	IF=20mA			
lr	Reverse Current	Super Bright Yellow		10	uA	V _R =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.

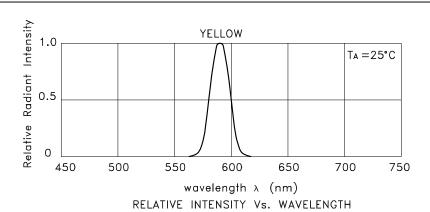
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Yellow	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		

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

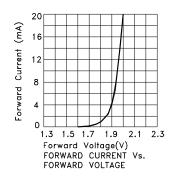
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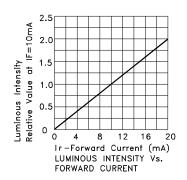
^{1.}Luminous intensity/ luminous Flux: +/-15%.
*Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

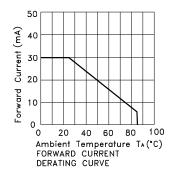


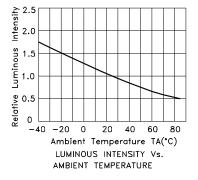
Super Bright Yellow

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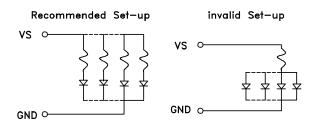






CIRCUIT DESIGN NOTES

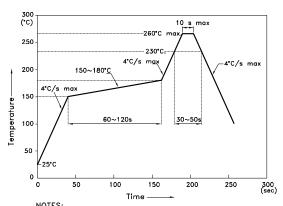
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



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Reflow Soldering Profile For Lead-free SMT Process.

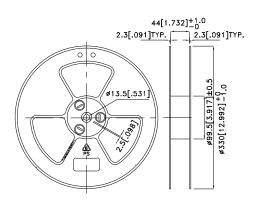


- OILS: 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 3.Number of reflow process shall be 2 times or less.

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

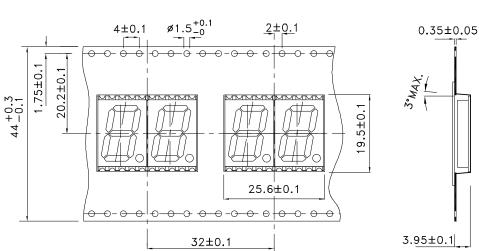
2.54X9 = 22.862.54

Reel Dimension



Tape Specifications (Units: mm)

TAPE



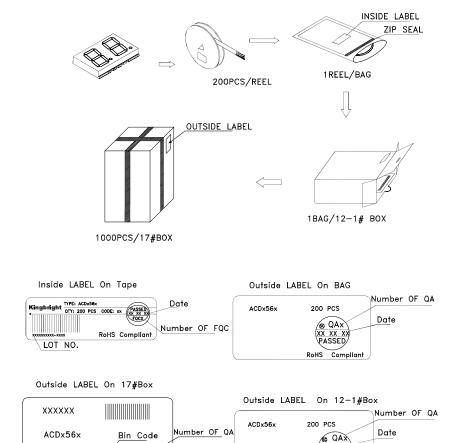
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PACKING & LABEL SPECIFICATIONS

ACDA56-41SYKWA-F01

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RoHS Compliant

1000PCS

1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.

Date

- 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.
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