

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SURFACE MOUNT DISPLAY

Part Number: ACDA56-51SYKWA Super Bright Yellow

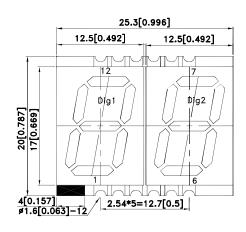
Features

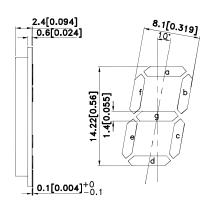
- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 200pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

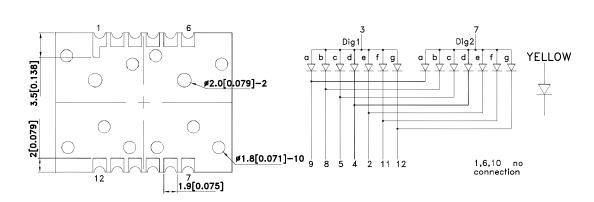
Description

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

Package Dimensions& Internal Circuit Diagram









- 1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The gap between the reflector and PCB shall not exceed 0.25mm.

SPEC NO: DSAM4694 **REV NO: V.6 APPROVED: WYNEC CHECKED:** Joe Lee **DATE: APR/09/2013** PAGE: 1 OF 5 DRAWN: Q.M.CHEN ERP: 1352000605

Selection Guide

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description	
		,	Min.	Тур.	•	
ACDA56-51SYKWA	Super Bright Yellow (AlGaInP)	White Diffused	52000	117000	Common Anode	

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Code.	Min.	Тур.	Max.	Units	Test Condi- tions
λpeak	Peak Wavelength	Super Bright Yellow			590		nm	I==20mA
λD [1]		Super Bright Yellow	3	586		588	nm	IF=20mA
	Dominant Wavelength		4	588		590		
			5	590		592		
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

Absolute Maximum Ratings at TA=25°C

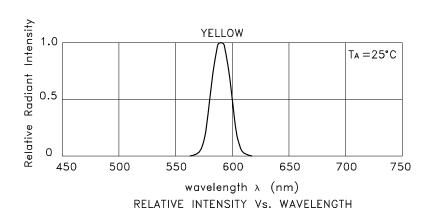
Parameter	Super Bright Yellow	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	175	mA		
Reverse Voltage	5	V		
Electrostatic Discharge Threshold (HBM)	3000	V		
Operating / Storage Temperature	-40°C To +85°C			

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

SPEC NO: DSAM4694 **REV NO: V.6 DATE: APR/09/2013** PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED:** Joe Lee DRAWN: Q.M.CHEN ERP: 1352000605

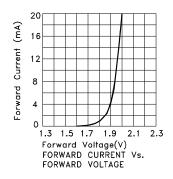
^{1.} Luminous intensity/ luminous Flux: +/-15%.

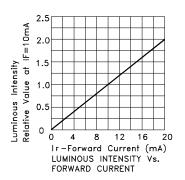
^{1.}Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

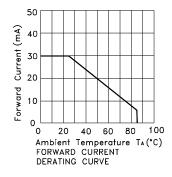


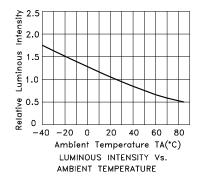
Super Bright Yellow

ACDA56-51SYKWA



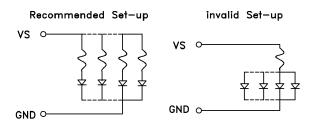






CIRCUIT DESIGN NOTES

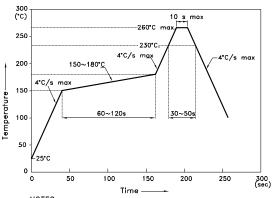
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



SPEC NO: DSAM4694 APPROVED: WYNEC REV NO: V.6 CHECKED: Joe Lee DATE: APR/09/2013 DRAWN: Q.M.CHEN PAGE: 3 OF 5 ERP: 1352000605

ACDA56-51SYKWA

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.

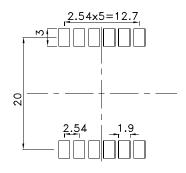
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

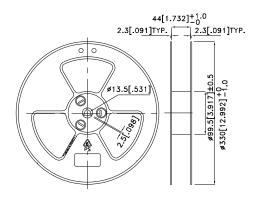
3.Number of reflow process shall be 2 times or less.

LICILI : Bu

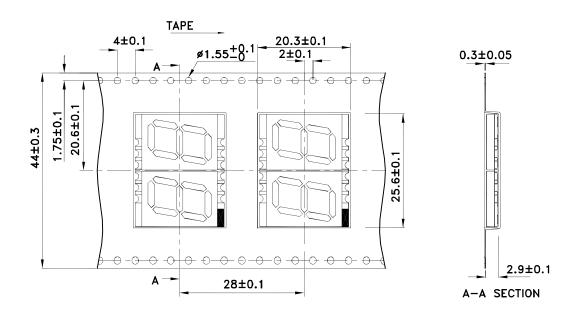
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

Reel Dimension

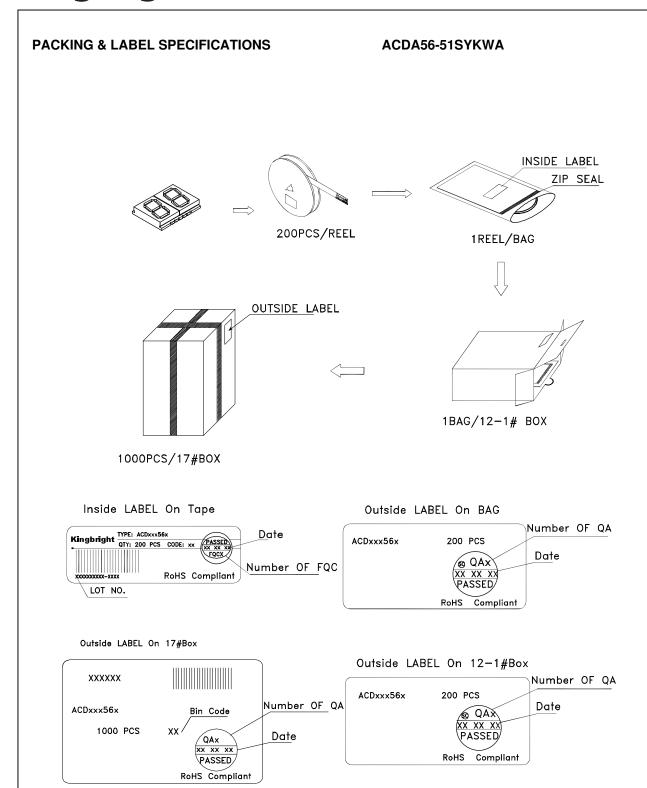




Tape Specifications (Units: mm)



SPEC NO: DSAM4694 APPROVED: WYNEC REV NO: V.6 CHECKED: Joe Lee DATE: APR/09/2013 DRAWN: Q.M.CHEN PAGE: 4 OF 5 ERP: 1352000605



All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

SPEC NO: DSAM4694 APPROVED: WYNEC REV NO: V.6 CHECKED: Joe Lee DATE: APR/09/2013 DRAWN: Q.M.CHEN PAGE: 5 OF 5 ERP: 1352000605