

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!



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SURFACE MOUNT DISPLAY

Part Number: ACDA56-51CGKWA Green

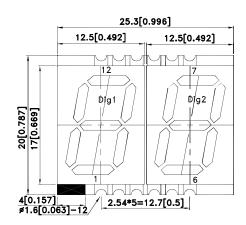
Features

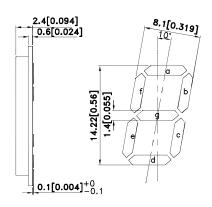
- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 200pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

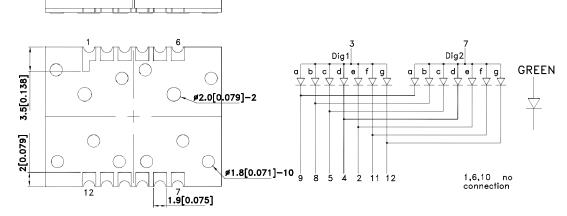
Description

The 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.
- 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.

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Selection Guide

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
		20110 1940	Min.	Тур.	2000
ACDA56-51CGKWA	Green (AlGaInP)	White Diffused	14000	26000	Common Anode

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Code.	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green			574		nm	I=20mA
λD [1]		Green	4	565		567	nm	IF=20mA
	Dominant Wavelength		5	567		569		
			6	569		571		
Δλ1/2	Spectral Line Half-width	Green			20		nm	I=20mA
С	Capacitance	Green			15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green			2.1	2.5	V	IF=20mA
lR	Reverse Current	Green				10	uA	V _R =5V

Absolute Maximum Ratings at TA=25°C

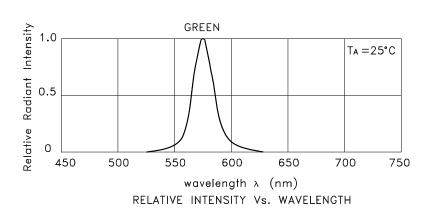
Parameter	Green	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Electrostatic Discharge Threshold (HBM)	3000	V	
Operating / Storage Temperature	-40°C To +85°C		

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Note:
1. Luminous intensity/ luminous Flux: +/-15%.

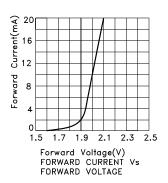
^{1.}Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

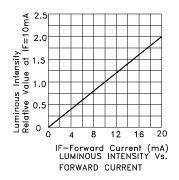
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

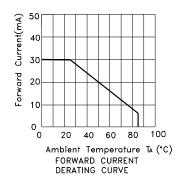


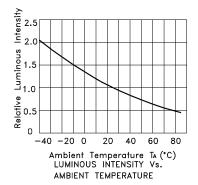
Green

ACDA56-51CGKWA



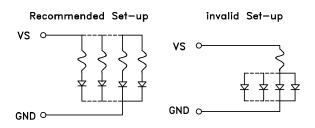






CIRCUIT DESIGN NOTES

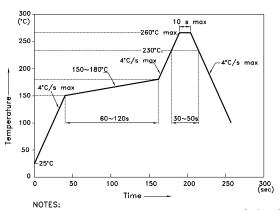
- 1.Protective current—limiting resistors may be necessary to operate the Displays.
- 2.LEDs mounted in parallel should each be placed in series with its own current—limiting resistor.



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ACDA56-51CGKWA

Reflow Soldering Profile For Lead-free SMT Process.



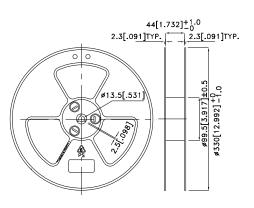
10.1C.s. 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

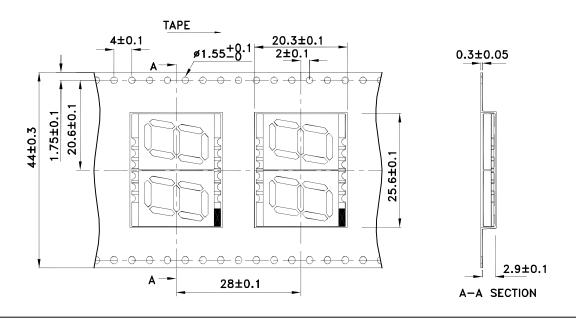
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

2.54x5=12.7 N 2.54 1.9

Reel Dimension



Tape Specifications (Units: mm)



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PACKING & LABEL SPECIFICATIONS ACDA56-51CGKWA INSIDE LABEL ZIP_SEAL 200PCS/REEL 1REEL/BAG OUTSIDE LABEL 1BAG/12-1# BOX 1000PCS/17#BOX Inside LABEL On Tape Outside LABEL On BAG Number OF QA Kingbright TYPE: ACDxxx56x QTY: 200 PCS CODE: xx PASSED (xx xx xx) Date ACDxxx56x 200 PCS Date € QAX Number OF FQC XX XX XX PASSED/ **RoHS** Compliant LOT NO. Compliant RoHS Outside LABEL On 17#Box Outside LABEL On 12-1#Box XXXXXX Number OF QA ACDxxx56x 200 PCS N<u>umb</u>er OF QA Date ACDxxx56x Bin Code QAX XX XX XX \PASSED/ 1000 PCS Date QAx RoHS Compliant PASSED RoHS Compliant

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

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