

Excellent Integrated System Limited

Stocking Distributor

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Kingbright ACDA56-41SGWA-F01

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Kingbright

SURFACE MOUNT DISPLAY

Part Number: ACDA56-41SGWA-F01

Super Bright Green

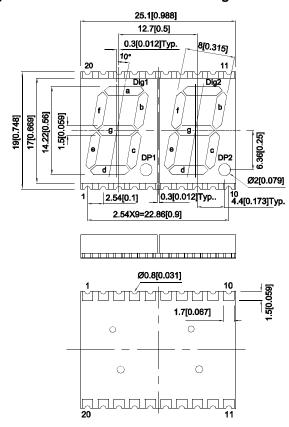
Features

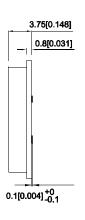
- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 200pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

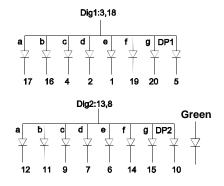
Description

The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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 ACDA56-41SGWA-F01 - DISPLAY 565NM GRN 2DIG 0.56" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	-
ACDA56-41SGWA-F01	Super Bright Green (GaP)	White Diffused	3600	6000	Common Anode, Rt. Hand Decimal.
			*900	*1800	

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	IF=10mA
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=10mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Green	2	2.5	V	IF=10mA
lr	Reverse Current	Super Bright Green		10	uA	VR=5V

- 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	Values	Units
Power dissipation	62.5	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating / Storage Temperature -40°C To +85°C		

Note:

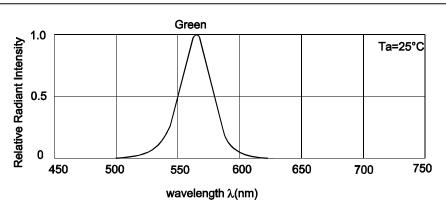
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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



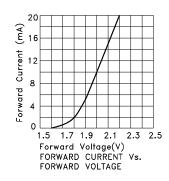
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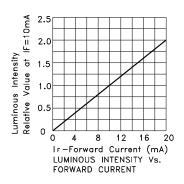


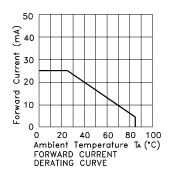
Relative Intensity Vs. Wavelength

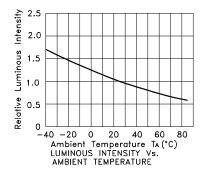
Super Bright Green

ACDA56-41SGWA-F01



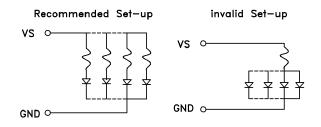






CIRCUIT DESIGN NOTES

- 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.



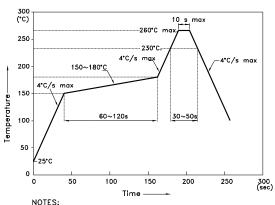
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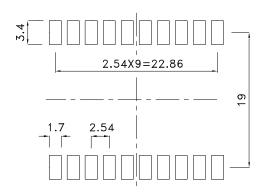
Reflow Soldering Profile For Lead-free SMT Process.



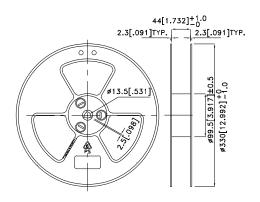
10.1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

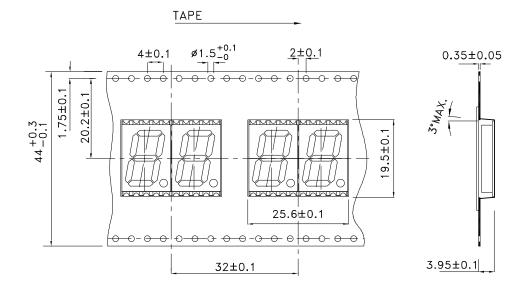
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)



Reel Dimension



Tape Specifications (Units: mm)



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Datasheet of ACDA56-41SGWA-F01 - DISPLAY 565NM GRN 2DIG 0.56" SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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PACKING & LABEL SPECIFICATIONS ACDA56-41SGWA-F01 INSIDE LABEL ZIP SEAL 1REEL/BAG 200PCS/REEL OUTSIDE LABEL 1BAG/12-1# BOX 1000PCS/17#BOX Inside LABEL On Tape Outside LABEL On BAG Number OF QA ACDx56x 200 PCS Date € QAx Number OF FQC RoHS Compliant XX XX XX PASSED/ LOT NO. RoHS Compliant Outside LABEL On 17#Box Outside LABEL On 12-1#Box

Terms and conditions for the usage of this document

Bin Code

PASSED

RoHS Compliant

XXXXXX

ACDx56x

1000PCS

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

N<u>umber OF</u> QA

Date

Number OF QA

Date

200 PCS

RoHS

OAX

Compliant

ACDx56x

- 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.
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