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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: ACSA56-41SRWA-F01

Super Bright Red

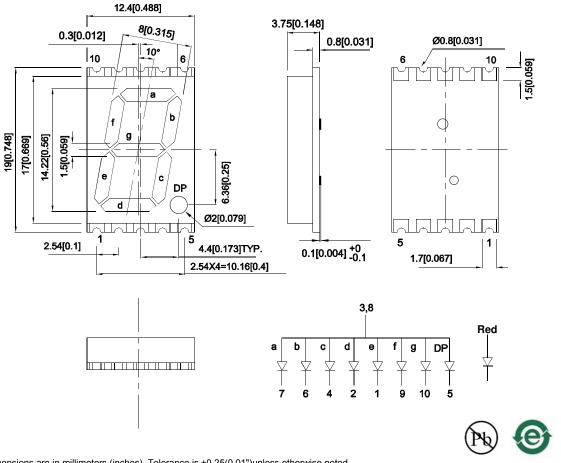
Features

- 0.56 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Gray face, white segment.
- Package: 400pcs/ reel.
- Moisture sensitivity level : level 2a.
- RoHS compliant.

Description

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.

Package Dimensions& Internal Circuit Diagram



- 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.

SPEC NO: DSAG0290 **REV NO: V.8A DATE: DEC/02/2015** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED:** Joe Lee DRAWN: M.Liu ERP: 1351000387

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	2000 p
ACSA56-41SRWA-F01	Super Bright Red (GaAlAs)	White Diffused	9000	26000	Common Anode,Rt. Hand Decimal.
			*3600	*7200	

Notes:

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

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	655		nm	IF=10mA
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	IF=10mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.8	2.5	V	IF=10mA
lr	Reverse Current	Super Bright Red		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.
- Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

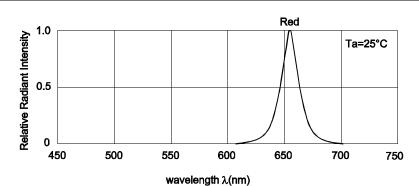
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	155	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	ure -40°C To +85°C		

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

SPEC NO: DSAG0290 **REV NO: V.8A DATE: DEC/02/2015** PAGE: 2 OF 5 **APPROVED:** Wynec **CHECKED:** Joe Lee DRAWN: M.Liu ERP: 1351000387

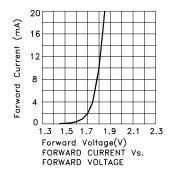
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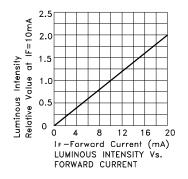


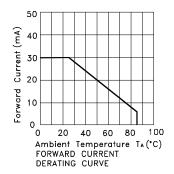
Relative Intensity Vs. Wavelength

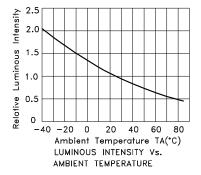
Super Bright Red

ACSA56-41SRWA-F01



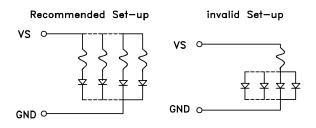






CIRCUIT DESIGN NOTES

- 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.

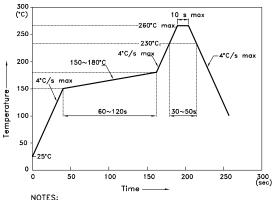


SPEC NO: DSAG0290 APPROVED: Wynec REV NO: V.8A CHECKED: Joe Lee DATE: DEC/02/2015 DRAWN: M.Liu PAGE: 3 OF 5 ERP: 1351000387

Kingbright

ACSA56-41SRWA-F01

Reflow Soldering Profile For Lead-free SMT Process.



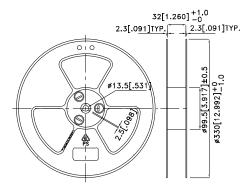
- NOTES:

 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.

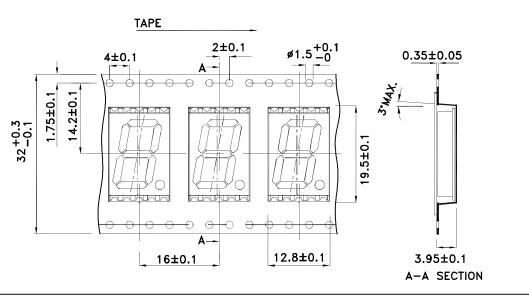
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

2.54X4=10.16 1.7 2.54

Reel Dimension



Tape Specifications (Units: mm)



SPEC NO: DSAG0290 **APPROVED: Wynec**

REV NO: V.8A CHECKED: Joe Lee **DATE: DEC/02/2015** DRAWN: M.Liu

PAGE: 4 OF 5 ERP: 1351000387



PACKING & LABEL SPECIFICATIONS ACSA56-41SRWA-F01 INSIDE LABEL ZIP SEAL 1REEL/BAG OUTSIDE LABEL 2BAG/12-1#BOX 4000PCS/17#BOX Outside Label on Bag Inside Label on Tape Kingbright TYPE: ACSX56XX Number OF QA Date ACSX56XX 400 PCS Number OF FQC SO QAX Date RoHS Complian PASSED LOT NO. RoHS Compliant Outside Label on 17#Box Outside Label on 12-1#Box XXXXXX Number OF QA ACSX56XX 800 PCS Number OF QA Date ACSX56XX Bin Code © QAx 4000PCS Date PASSED, PASSED RoHS Compliant RoHS Compliant

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 SPEC NO: DSAG0290
 REV NO: V.8A
 DATE: DEC/02/2015
 PAGE: 5 OF 5

 APPROVED: Wynec
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