

SURFACE MOUNT DISPLAY

Part Number: ACDC03-41SRWA-F01

Super Bright Red

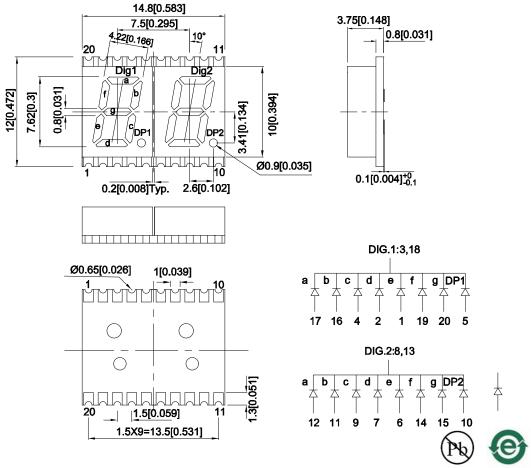
Features

- 0.3 inch digit height.
- Low current operation.
- Excellent character appearance.
- Mechanically rugged.
- Package :300pcs / reel.
- Gray face, white segment.
- 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: DSAG0234 **REV NO: V.12A** DATE: JAN/04/2016 PAGE: 1 OF 5 APPROVED: Wynec **CHECKED:** Joe Lee DRAWN: F.T.Liu ERP: 1352000334

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Selection Guide

	Part No.	Emitting Color (Material)	Lens Type	Iv (ucd) [1] @ 10mA		Description
				Min.	Тур.	
	ACDC02 44CDWA F04	Compan Dright Dad (CaAlAa)	Mileita Difference	5600	9800	Common Cathode, Rt. Hand Decimal.
	ACDC03-41SRWA-F01	Super Bright Red (GaAlAs)	White Diffused	*1400	*2600	

Note:

- 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.
- 4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

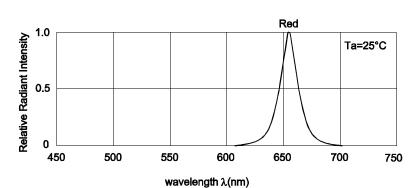
Absolute Maximum Ratings at TA=25°C

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

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

SPEC NO: DSAG0234 **REV NO: V.12A** DATE: JAN/04/2016 PAGE: 2 OF 5 APPROVED: Wynec **CHECKED:** Joe Lee DRAWN: F.T.Liu ERP: 1352000334

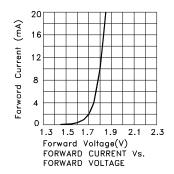
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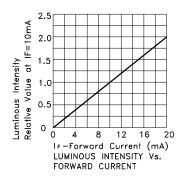


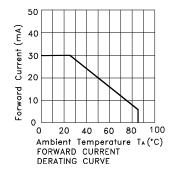
Relative Intensity Vs. Wavelength

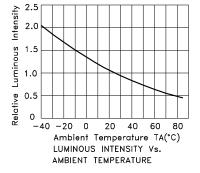
Super Bright Red

ACDC03-41SRWA-F01



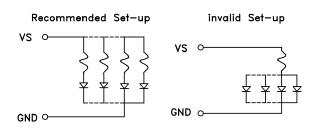






CIRCUIT DESIGN NOTES

- 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.

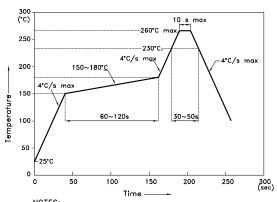


SPEC NO: DSAG0234 APPROVED: Wynec REV NO: V.12A CHECKED: Joe Lee DATE: JAN/04/2016 DRAWN: F.T.Liu PAGE: 3 OF 5 ERP: 1352000334

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ACDC03-41SRWA-F01

Reflow Soldering Profile For Lead-free SMT Process.

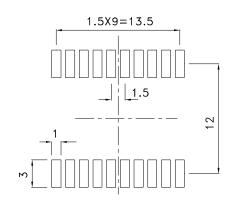


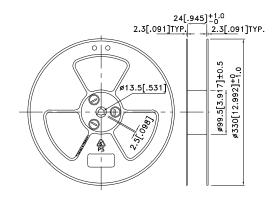
- NOTES:

 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.

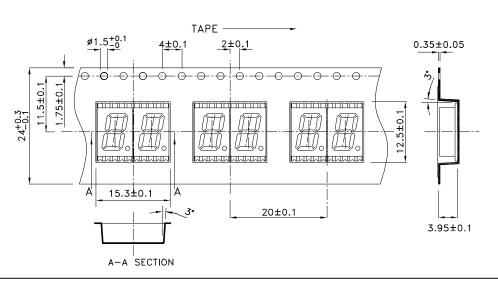
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.15)

Reel Dimension





Tape Specifications (Units: mm)



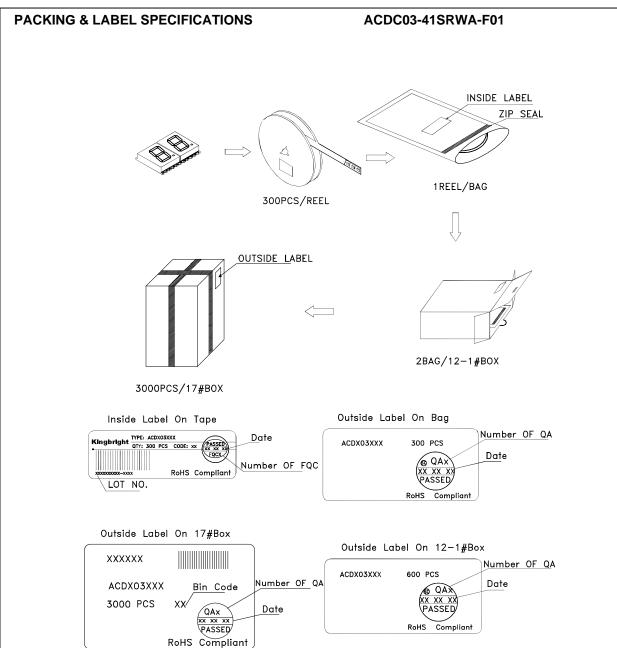
SPEC NO: DSAG0234 APPROVED: Wynec

REV NO: V.12A CHECKED: Joe Lee

DATE: JAN/04/2016 DRAWN: F.T.Liu

PAGE: 4 OF 5 ERP: 1352000334





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 SPEC NO: DSAG0234
 REV NO: V.12A
 DATE: JAN/04/2016
 PAGE: 5 OF 5

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