

Kingbright

SURFACE MOUNT DISPLAY

Part Number: ACDC03-41SRWA-F01

Super Bright Red

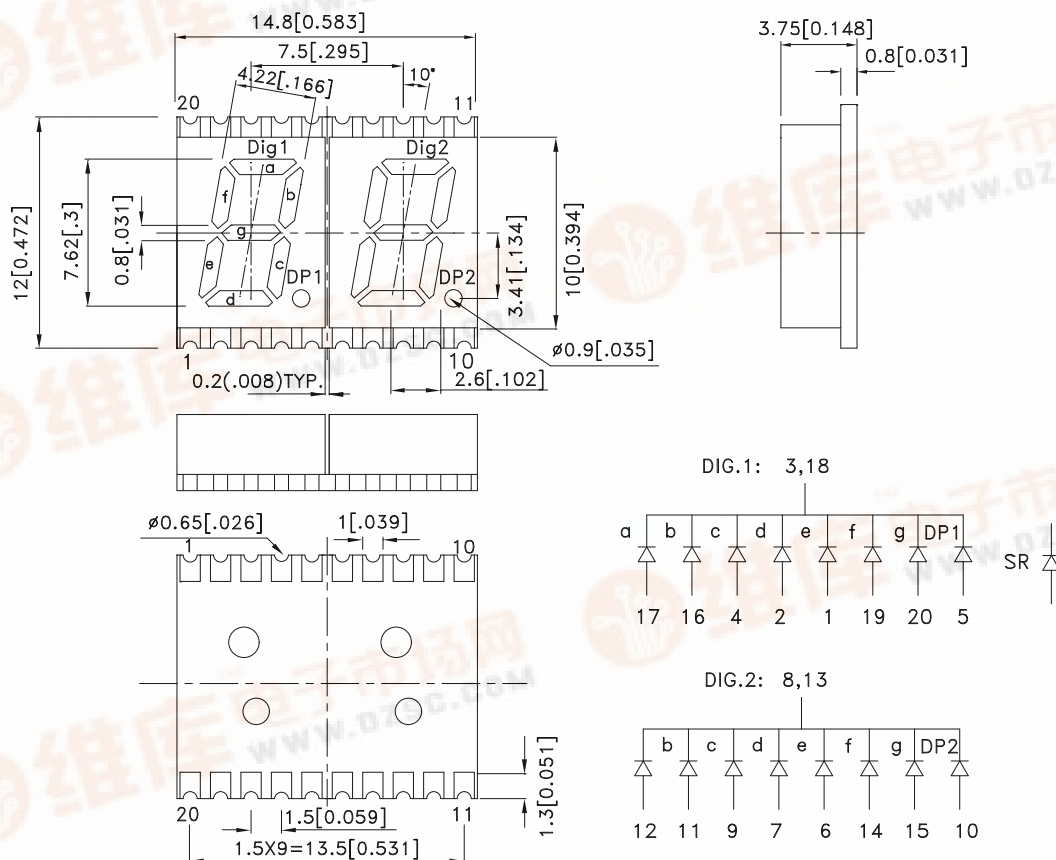
Features

- 0.3 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- PACKAGE :300PCS / REEL.
- GRAY FACE, WHITE SEGMENT.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- 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 $\pm 0.25(0.01")$ unless otherwise noted.
2. Specifications are subject to change without notice.
3. The gap between the reflector and PCB shall not exceed 0.25mm.



Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
ACDC03-41SRWA-F01	Super Bright Red (GaAlAs)	WHITE DIFFUSED	4700	19000	Common Cathode, Rt. Hand Decimal.

Note:

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Red	660		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	Super Bright Red	640		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Red	20		nm	I _F =20mA
C	Capacitance	Super Bright Red	45		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Red	1.85	2.5	V	I _F =20mA
I _R	Reverse Current	Super Bright Red		10	uA	V _R =5V

Notes:

1.Wavelength: +/-1nm.

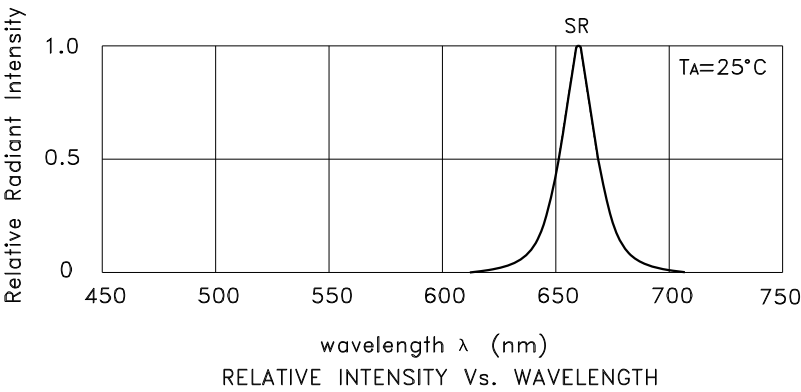
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

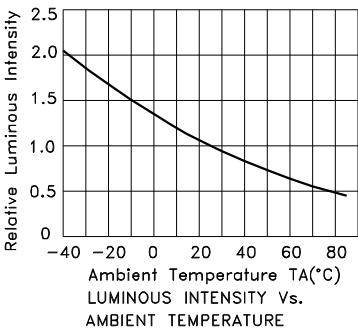
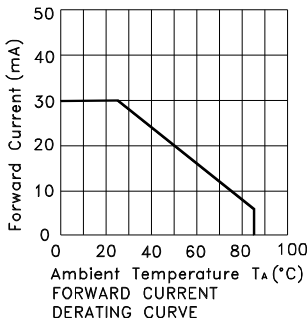
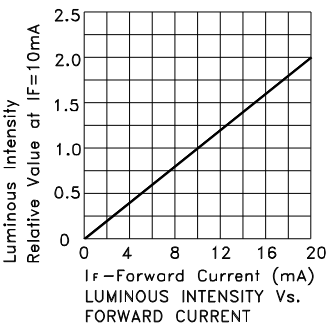
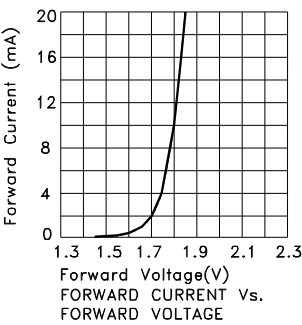
Parameter	Super Bright Red	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	155	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

Note:

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



Super Bright Red ACDC03-41SRWA-F01



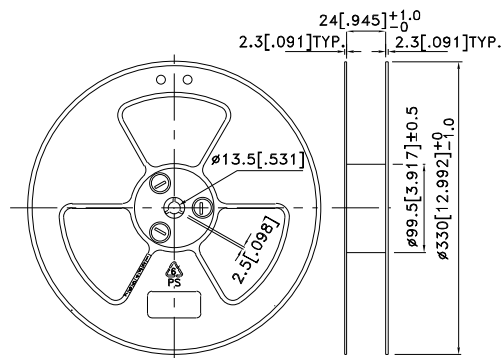
CHECKED: Joe Lee

DRAWN: Y H CHEN

ERP: 1352000334

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.

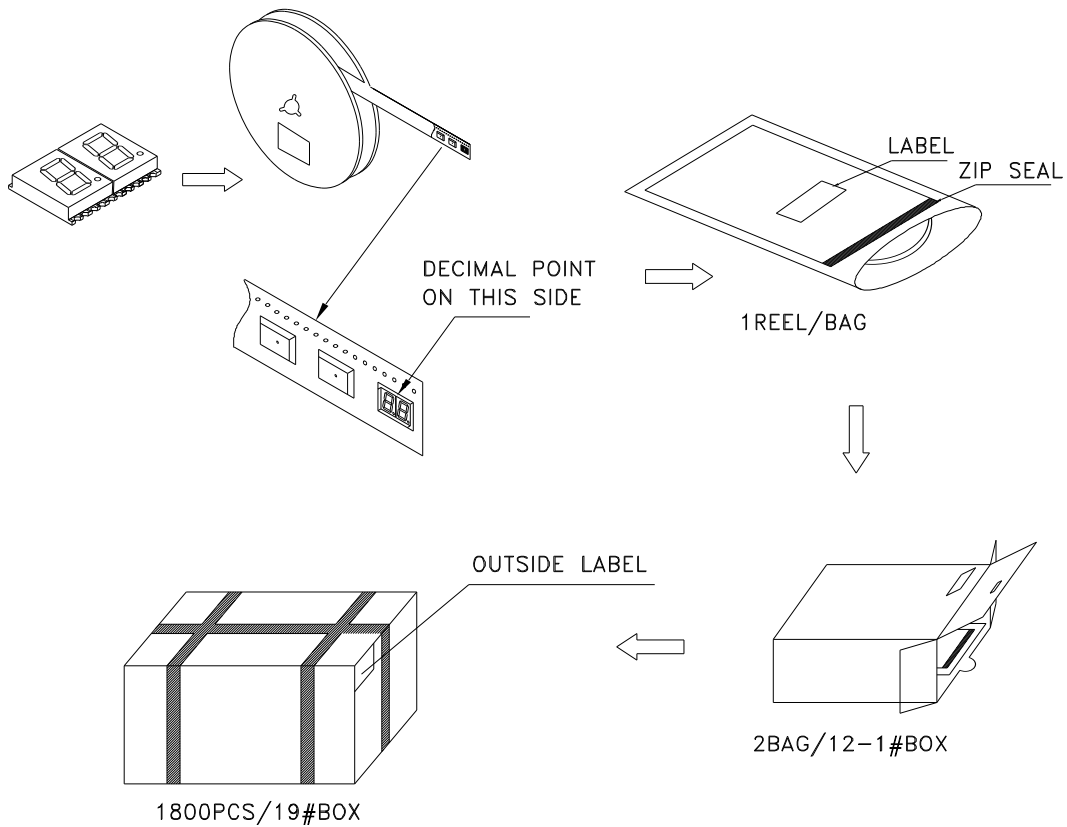
Reel Dimension



Technical drawing of a tape assembly. The main view shows a rectangular tape with three internal sections. Dimensions include overall width $24^{+0.3}_{-0.1}$, section widths 11.5 ± 0.1 and 1.75 ± 0.1 , and section lengths 15.3 ± 0.1 and 20 ± 0.1 . Hole diameters are $\varnothing 1.5^{+0.1}_{-0}$, 4 ± 0.1 , and 2 ± 0.1 . A cross-section A-A shows a U-shaped profile with a width of 3.95 ± 0.1 and a thickness of 0.35 ± 0.05 . A 3° angle is indicated on the cross-section.

PACKING & LABEL SPECIFICATIONS

ACDC03-41SRWA-F01



Inside LABEL Paste On The Tape-pipe

Kingbright	TYPE: ACDX03-41xxx	DATE
QTY: 300 PCS	CODE: xx	Number OF FQC
XXXXXXXXXX-XXXX	RoHS Compliant	
LOT NO.		

Outside LABEL Paste On The BAG

ACDX03-41xxx	300 PCS	Number OF QA
		DATE
RoHS Compliant		

Outside LABEL Paste On The 19#Box

BOX Number	XXXX	XX XX
ACDX03-41xxx	1800	x
		Number OF QA
		DATE
RoHS Compliant		

Outside LABEL Paste On The 12-1#Box

ACDX03-41xxx	600 PCS	Number OF QA
		DATE
RoHS Compliant		