

BAR GRAPH 5 SEGMENT

Part Number: DC-05SRWA

Super Bright Red

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ERP: 1331000312

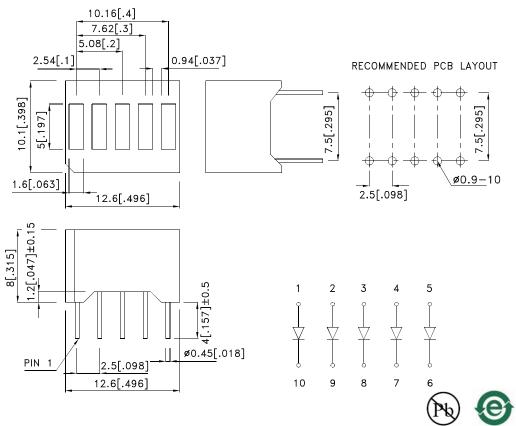
Features

- Suitable for level indicators.
- Low current operation.
- Excellent on/off contrast.
- End stackable.
- Mechanically rugged.
- Different colors in one unit available.
- Standard : gray face, white segment.
- 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



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.

SPEC NO: DSAE0658 REV NO: V.4A DATE: DEC/30/2011

APPROVED: WYNEC CHECKED: Joe Lee DRAWN: D.M.Su

Selection Guide

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
DC-05SRWA	Super Bright Red (GaAlAs)	White Diffused	14000	30000	5 Segment Bar graph-Display
			*5600	*8000	

Note:

- 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	Device	Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660	*655		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Red	640	*640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20			nm	IF=20mA
С	Capacitance	Super Bright Red	45			pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Red	1.85		2.5	V	IF=20mA
lr	Reverse Current	Super Bright Red			10	uA	V _R =5V

Notes:

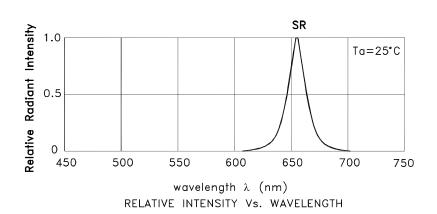
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

7.000:uuoux						
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					
Lead Solder Temperature[2]	260°C For 3-5 Seconds					

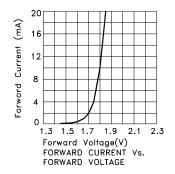
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.

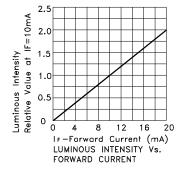
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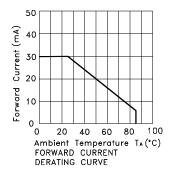


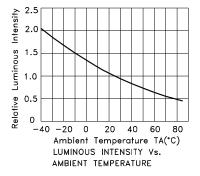
Super Bright Red

DC-05SRWA

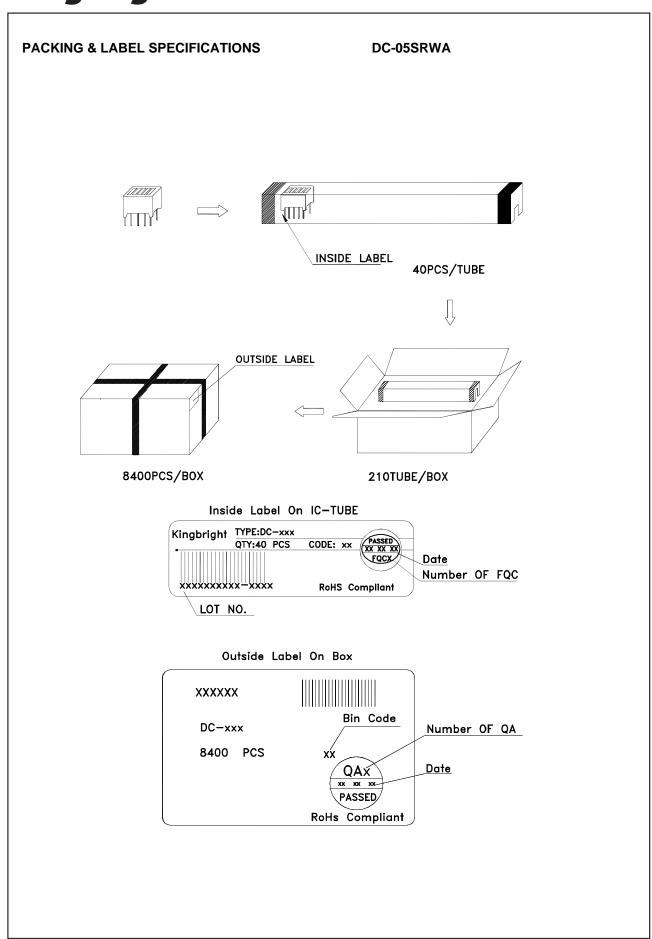








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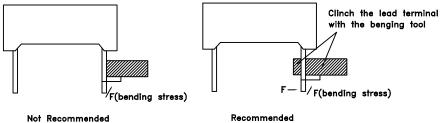


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THROUGH HOLE DISPLAY MOUNTING METHOD

Lead Forming

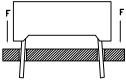
Do not bend the component leads by hand without proper tools. The leads should be bent by clinching the upper part of the lead firmly such that the bending force is not exerted on the plastic body.



Recommended

Installation

- 1. The installation process should not apply stress to the lead terminals.
- 2. When inserting for assembly, ensure the terminal pitch matches the substrate board's hole pitch to prevent spreading or pinching the lead terminals.

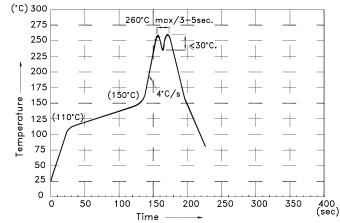


Not Recommended



DISPLAY SOLDERING CONDITIONS

Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85°C.
- 3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.During wave soldering , the PCB top-surface temperature should be kept below 105°C

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5.No more than once.

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Soldering General Notes:

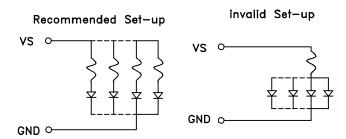
- a. Through-hole displays are incompatible with reflow soldering.
- b. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Kingbright for compatibility.

CLEANING

- 1.Mild "no-clean" fluxes are recommended for use in soldering.
- 2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

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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