

Part Number: CC56-21SRWA SUPER BRIGHT RED

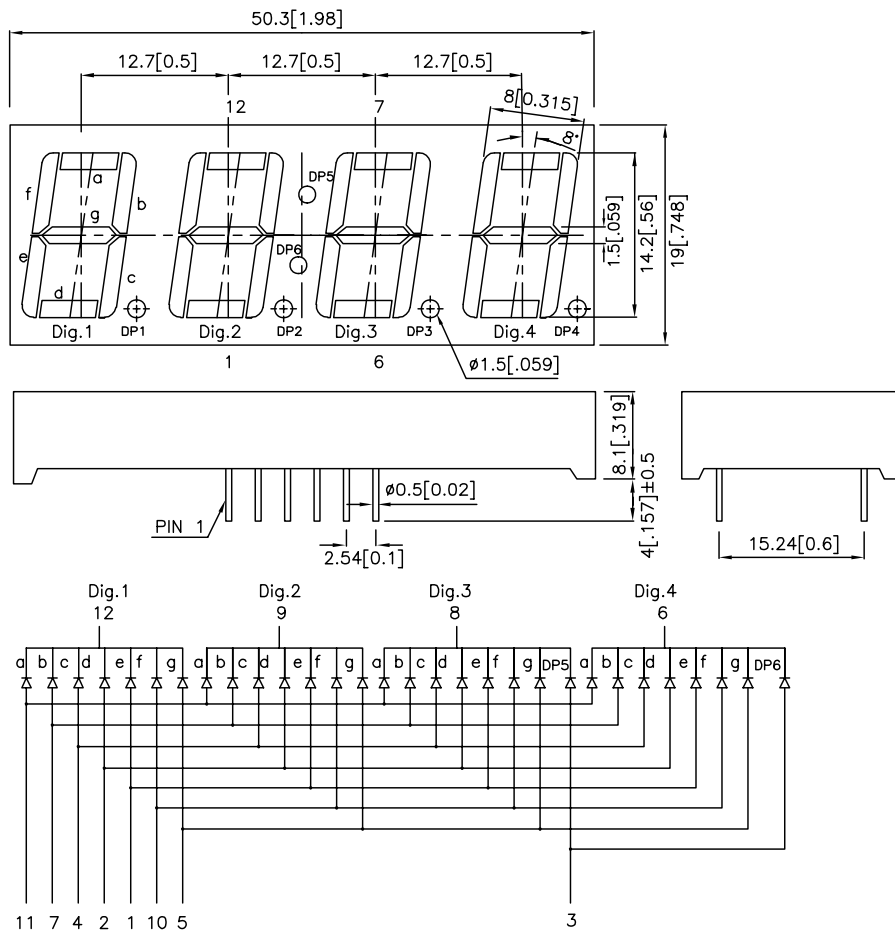
### Features

- 0.56 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- 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  $\pm 0.25(0.01)$  unless otherwise noted.
2. Specifications are subject to change without notice.

## Selection Guide

| Part No.    | Dice                      | Lens Type      | Iv (ucd) [1]<br>@ 10mA |       | Description    |
|-------------|---------------------------|----------------|------------------------|-------|----------------|
|             |                           |                | Min.                   | Typ.  |                |
| CC56-21SRWA | SUPER BRIGHT RED (GaAlAs) | WHITE DIFFUSED | 4700                   | 24000 | Common Cathode |

Note:

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

## Electrical / Optical Characteristics at TA=25°C

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

Notes:

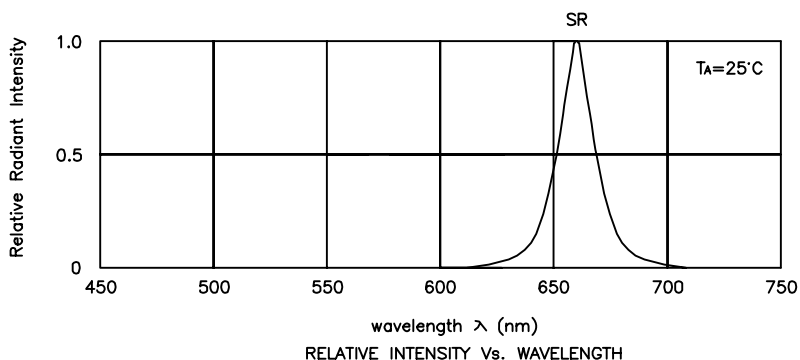
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

| Parameter                       | Super Bright Red    | Units |
|---------------------------------|---------------------|-------|
| Power dissipation               | 100                 | 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 5 Seconds |       |

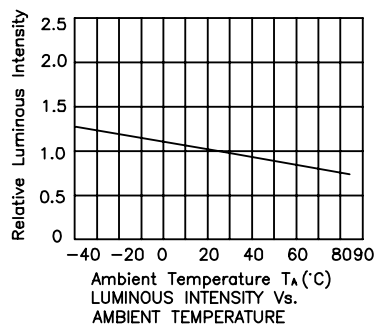
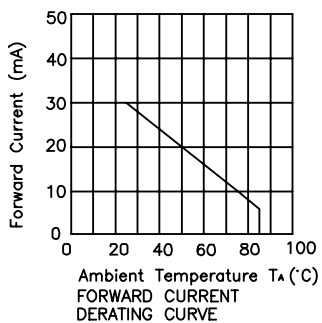
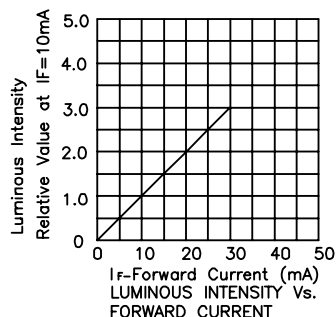
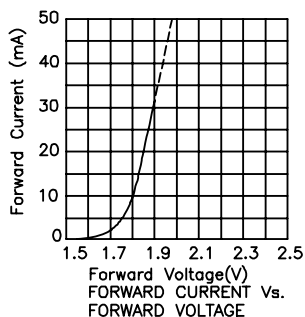
Notes:

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



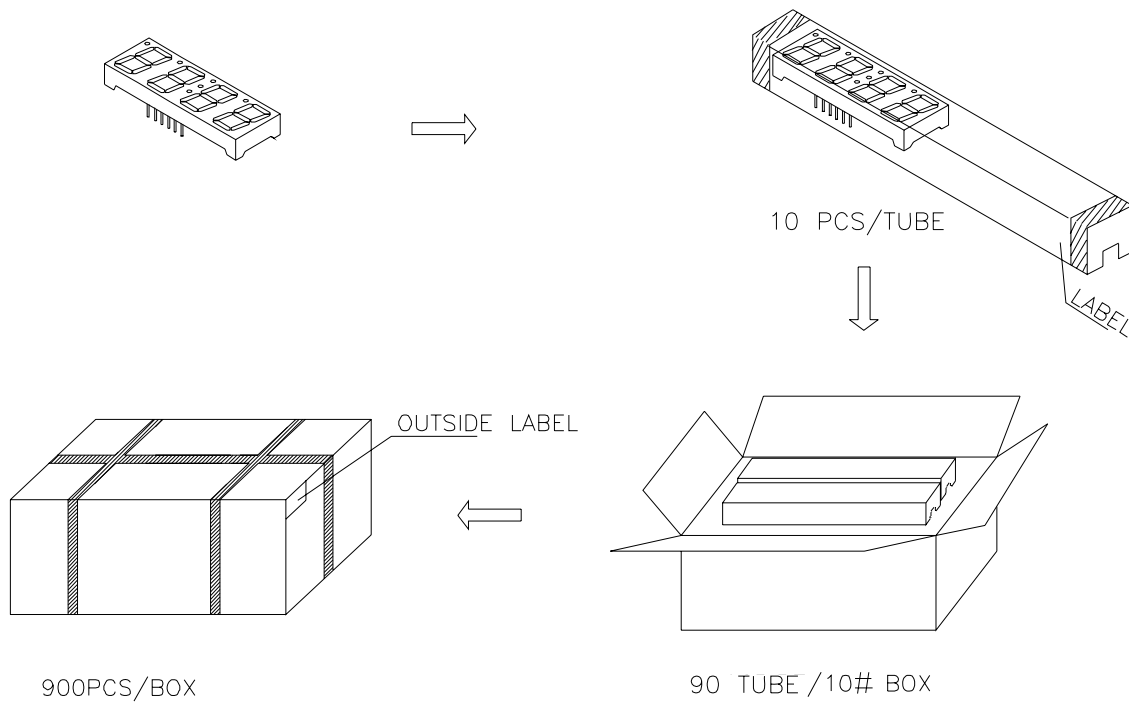
## Super Bright Red

## CC56-21SRWA

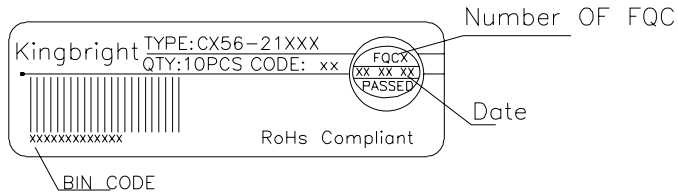


## PACKING & LABEL SPECIFICATIONS

## CC56-21SRWA



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

