

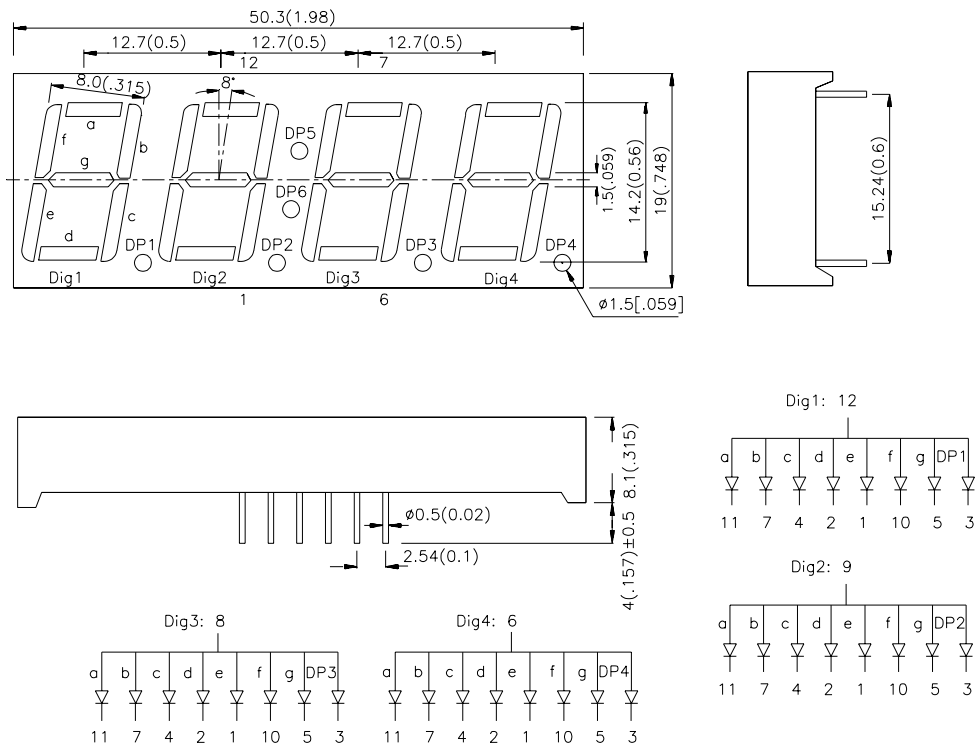
### Features

- 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.

### 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)<br>@ 10mA |       | Description                    |
|-------------|---------------------------|----------------|--------------------|-------|--------------------------------|
|             |                           |                | Min.               | Typ.  |                                |
| CA56-12SRWA | SUPER BRIGHT RED (GaAlAs) | WHITE DIFFUSED | 8000               | 24000 | Common Anode, Rt. Hand Decimal |

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

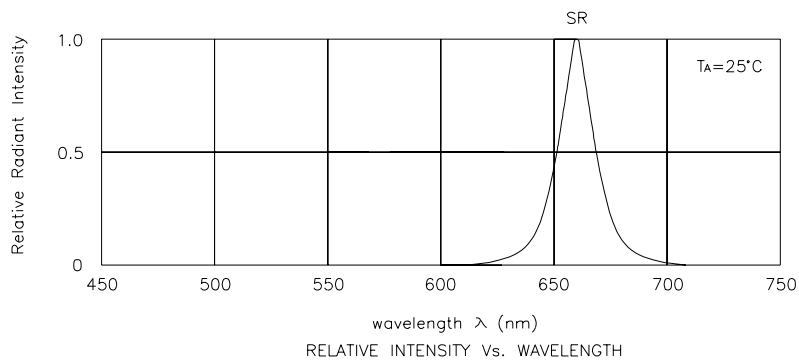
| Symbol                | Parameter                | Device           | Typ. | Max. | Units | Test Conditions            |
|-----------------------|--------------------------|------------------|------|------|-------|----------------------------|
| $\lambda_{peak}$      | Peak Wavelength          | Super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

## Absolute Maximum Ratings at T<sub>A</sub>=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 CA56-12SRWA

