

## 14.22mm (0.56INCH) FOUR DIGIT NUMERIC DISPLAY

Part Number: CA56-12EWA

HIGH EFFICIENCY 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.

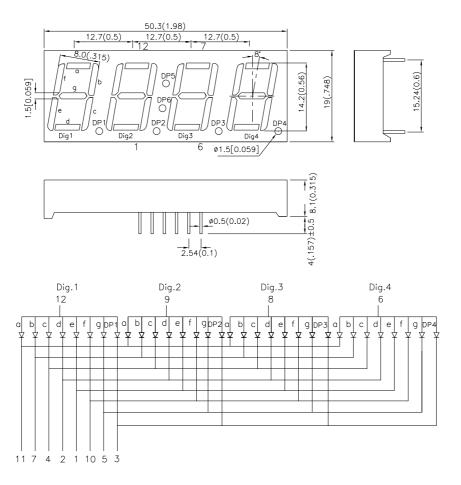
### **Description**

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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### 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.

SPEC NO: DSAD2362 REV NO: V.6 DATE: JUN/16/2006
APPROVED: J. Lu CHECKED: Joe Lee DRAWN: Y.L.LI

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## **Selection Guide**

| Part No.   | Dice                            | Lens Type      | lv (ucd) [1]<br>@ 10mA |      | Description                        |
|------------|---------------------------------|----------------|------------------------|------|------------------------------------|
|            |                                 |                | Min.                   | Тур. |                                    |
| CA56-12EWA | HIGH EFFICIENCY RED (GaAsP/GaP) | WHITE DIFFUSED | 1200                   | 6400 | Common Anode, Rt.<br>Hand Decimal. |

#### Note:

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

| Symbol | Parameter                | Device              | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | High Efficiency Red | 627  |      | nm    | IF=20mA         |
| λD [1] | Dominant Wavelength      | High Efficiency Red | 625  |      | nm    | IF=20mA         |
| Δλ1/2  | Spectral Line Half-width | High Efficiency Red | 45   |      | nm    | IF=20mA         |
| С      | Capacitance              | High Efficiency Red | 15   |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | High Efficiency Red | 2.0  | 2.5  | V     | IF=20mA         |
| lr     | Reverse Current          | High Efficiency Red |      | 10   | uA    | VR = 5V         |

#### Notes:

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

## Absolute Maximum Ratings at Ta=25°C

| Parameter                       | High Efficiency Red | Units |  |  |
|---------------------------------|---------------------|-------|--|--|
| Power dissipation               | 105                 | mW    |  |  |
| DC Forward Current              | 30                  | mA    |  |  |
| Peak Forward Current [1]        | 160                 | mA    |  |  |
| Reverse Voltage                 | 5                   | V     |  |  |
| Operating / Storage Temperature | -40°C To +85°C      |       |  |  |
| Lead Solder Temperature [2]     | 260°C For 5 Seconds |       |  |  |

### Notes:

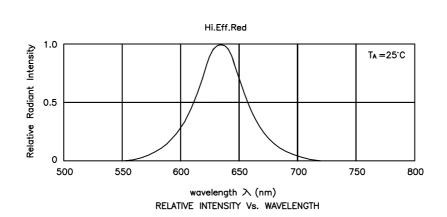
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.

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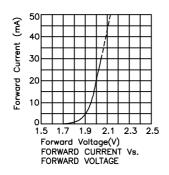
<sup>1.</sup> Luminous intensity/ luminous Flux: +/-15%.

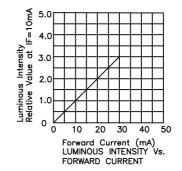
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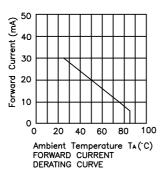


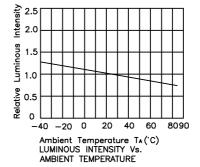
**High Efficiency Red** 

**CA56-12EWA** 





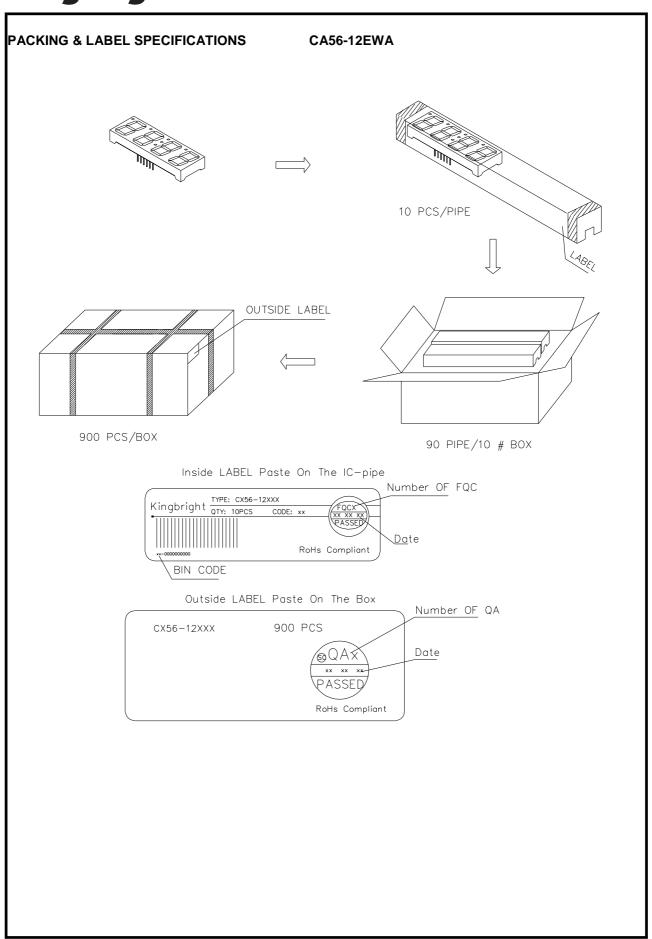




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