

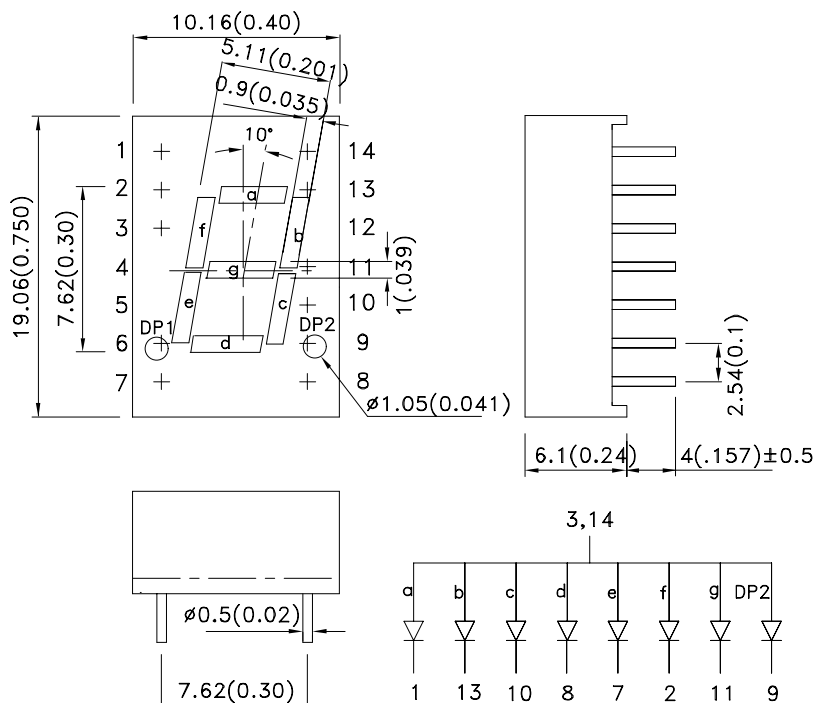
### Features

- 0.3 INCH DIGIT HEIGHT.
- 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.

### 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.



## Selection Guide

| Part No.   | Dice                            | Lens Type      | Iv (ucd) [1]<br>@ 10mA |      | Description                        |
|------------|---------------------------------|----------------|------------------------|------|------------------------------------|
|            |                                 |                | Min.                   | Typ. |                                    |
| SA03-11EWA | High Efficiency Red (GaAsP/GaP) | WHITE DIFFUSED | 1900                   | 8500 | Common Anode, Rt.<br>Hand Decimal. |

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          | High Efficiency Red | 627  |      | nm    | I <sub>F</sub> =20mA      |
| $\lambda_D$ [1]       | Dominant Wavelength      | High Efficiency Red | 625  |      | nm    | I <sub>F</sub> =20mA      |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | High Efficiency Red | 45   |      | nm    | I <sub>F</sub> =20mA      |
| C                     | Capacitance              | High Efficiency Red | 15   |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub> [2]    | Forward Voltage          | High Efficiency Red | 2.0  | 2.5  | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>        | Reverse Current          | High Efficiency Red |      | 10   | uA    | V <sub>R</sub> =5V        |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

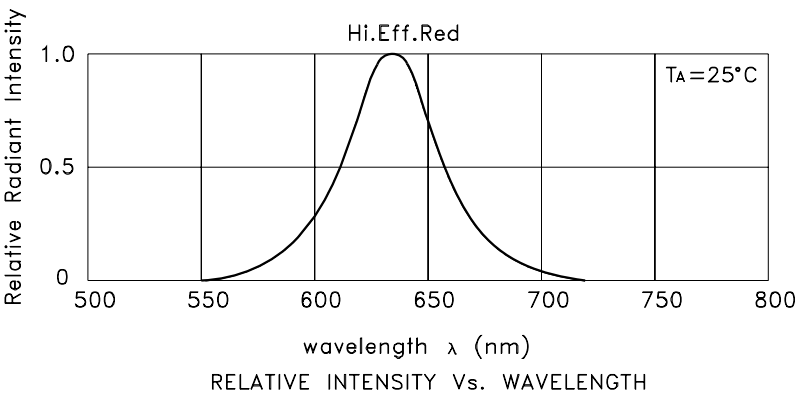
## Absolute Maximum Ratings at TA=25°C

| Parameter                       | High Efficiency Red   | Units |
|---------------------------------|-----------------------|-------|
| Power dissipation               | 75                    | 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 3-5 Seconds |       |

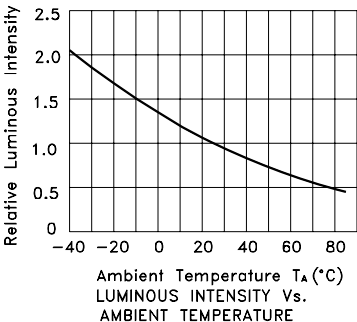
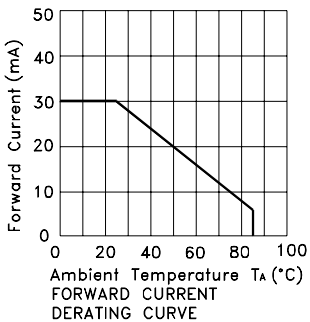
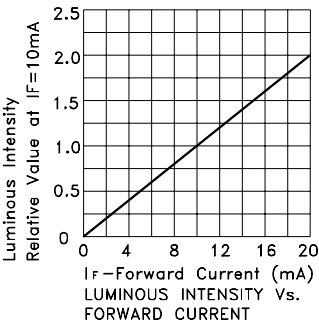
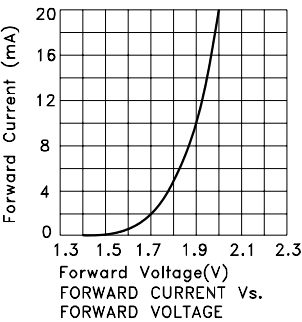
Notes:

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

2. 2mm below package base.

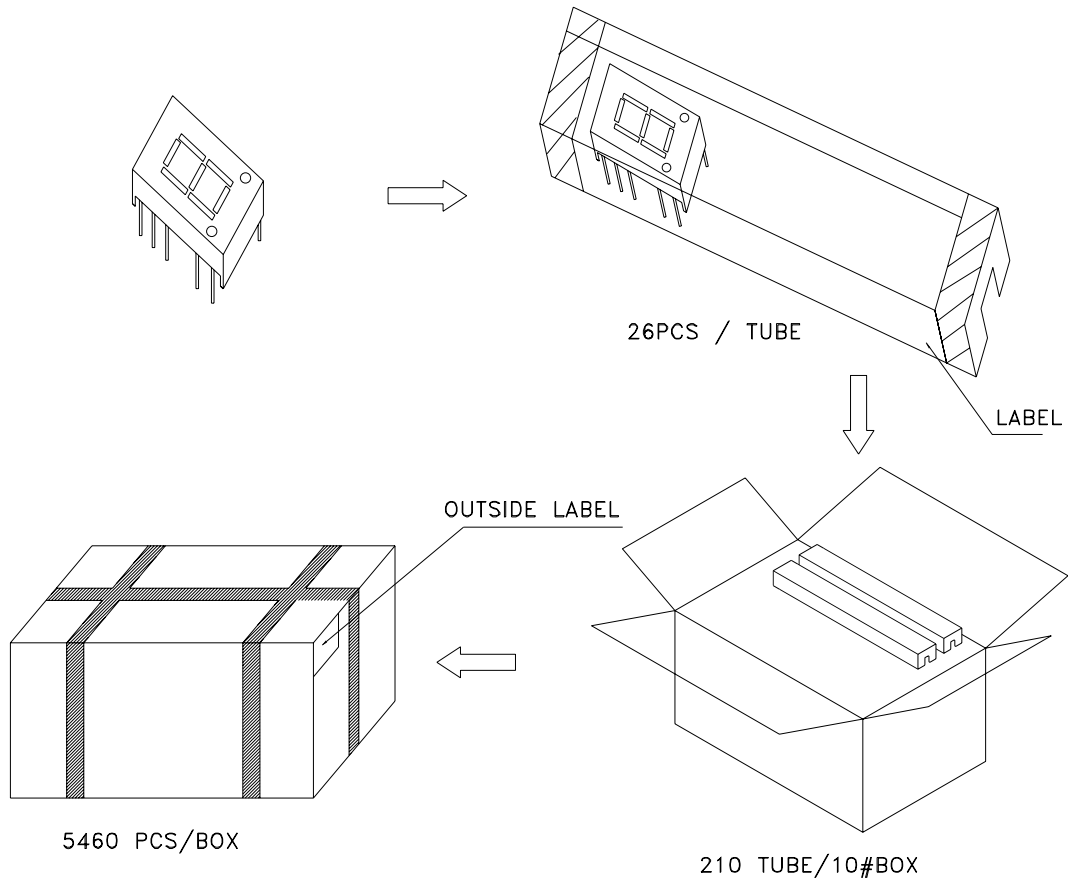


High Efficiency Red SA03-11EWA



## PACKING & LABEL SPECIFICATIONS

SA03-11EWA



Inside LABEL Paste On The IC-tube

|                   |                  |               |
|-------------------|------------------|---------------|
| <b>Kingbright</b> | TYPE: SX03-11XXX | Date          |
| QTY: 26 PCS       | CODE: xx         | PASSED        |
| XXXXXXXXXX-XXXX   |                  | xx xx xx      |
| LOT NO.           | RoHs Compliant   | FQCX          |
|                   |                  | Number OF FQC |

Outside LABEL Paste On The Box

|            |          |                |
|------------|----------|----------------|
| SX03-11XXX | 5460 PCS | Number OF QA   |
|            |          | QC             |
|            |          | QAxx           |
|            |          | xx xx xx       |
|            |          | PASSED         |
|            |          | Date           |
|            |          | RoHs Compliant |