

Part Number: TA12-22EWA HIGH EFFICIENCY RED

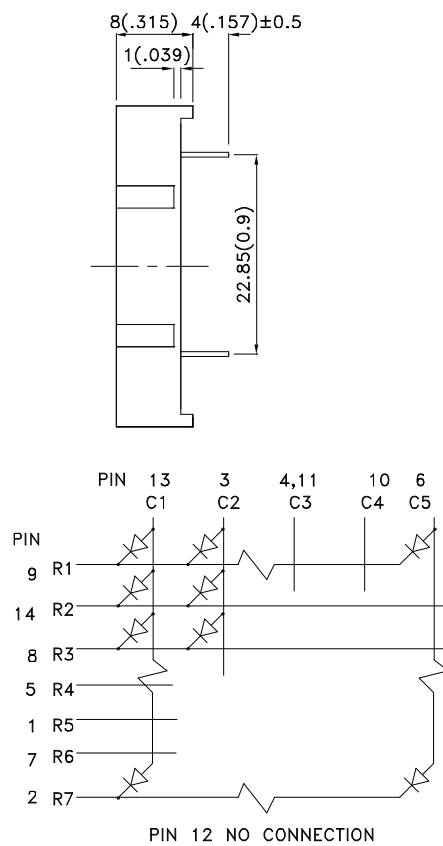
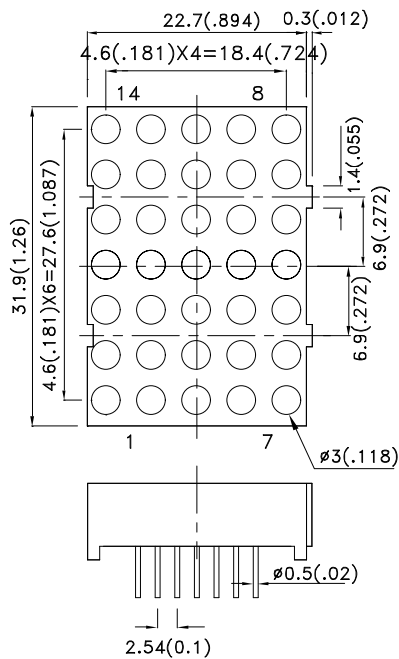
### Features

- 1.2 INCH MATRIX HEIGHT .
- DOT SIZE 3mm.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- COMPATIBLE WITH ASCII AND EBCDIC CODES.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- MECHANICALLY RUGGED.
- STANDARD: GRAY FACE, WHITE DOT.
- 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



#### 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.  |              |
| TA12-22EWA | HIGH EFFICIENCY RED(GaAsP/GaP) | WHITE DIFFUSED | 3000                   | 12000 | Column Anode |

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    | IF=20mA         |
| $\lambda_D$ [1]       | Dominant Wavelength      | High Efficiency Red | 625  |      | nm    | IF=20mA         |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | High Efficiency Red | 45   |      | nm    | IF=20mA         |
| C                     | Capacitance              | High Efficiency Red | 15   |      | pF    | VF=0V;f=1MHz    |
| VF [2]                | Forward Voltage          | High Efficiency Red | 2    | 2.5  | V     | IF=20mA         |
| IR                    | Reverse Current          | High Efficiency Red |      | 10   | uA    | VR = 5V         |

Notes:

1.Wavelength: +/-1nm

2.Forward Voltage: +/-0.1V

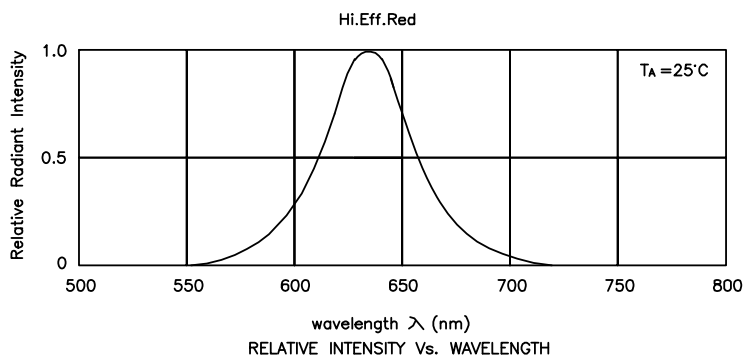
## Absolute Maximum Ratings at TA=25°C

| Parameter                     | High Efficiency Red   | Units |
|-------------------------------|-----------------------|-------|
| Power dissipation             | 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:

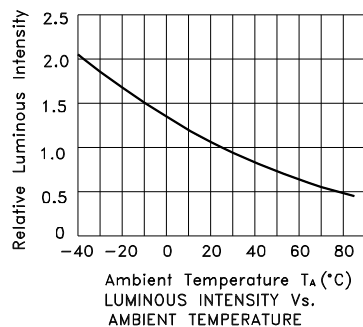
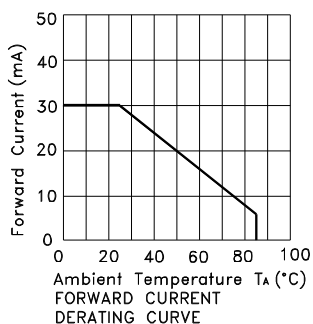
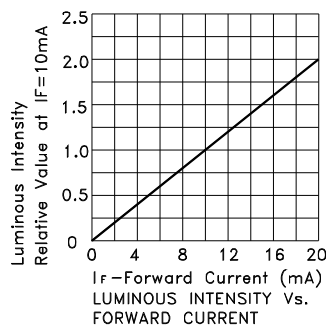
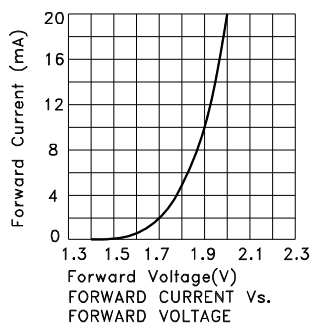
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.



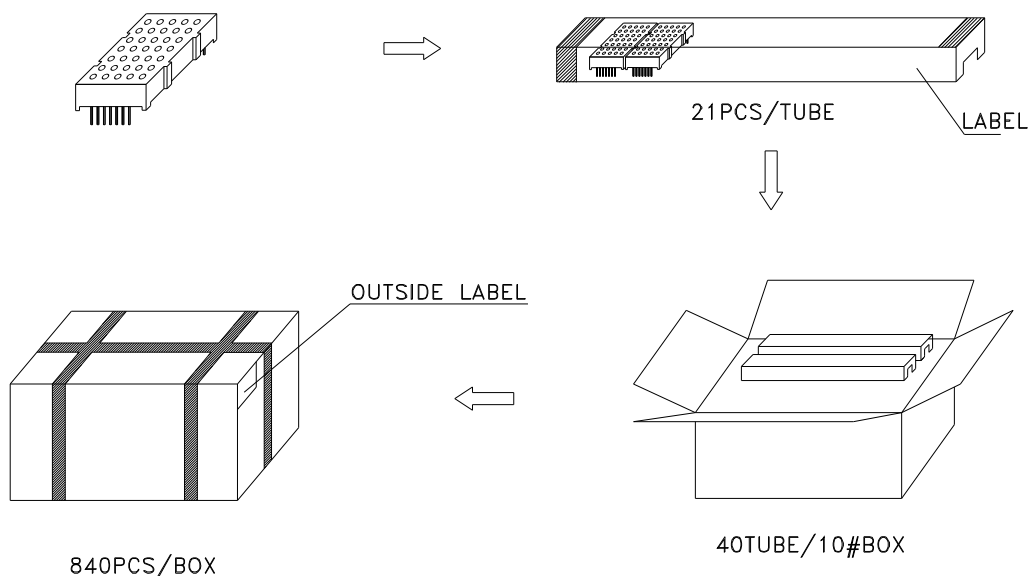
## High Efficiency Red

## TA12-22EWA

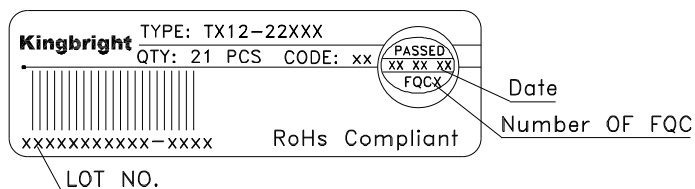


## PACKING & LABEL SPECIFICATIONS

## TA12-22EWA



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

