

#### 10 SEGMENT BAR GRAPH ARRAY

DC10EWA

HIGH EFFICIENCY RED

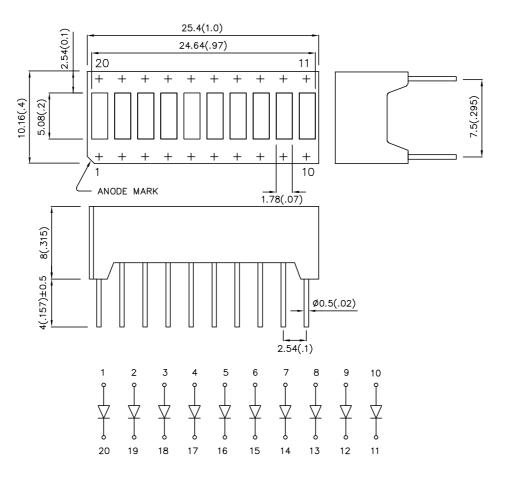
#### **Features**

- •SUITABLE FOR LEVEL INDICATORS.
- •LOW CURRENT OPERATION.
- ●EXCELLENT ON/OFF CONTRAST.
- •WIDE VIEWING ANGLE.
- ●END STACKABLE.
- •MECHANICALLY RUGGED.
- •BI-COLOR VERSION AVAILABLE.
- •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



#### 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: DSAD1426 APPROVED: J. Lu REV NO: V.3 CHECKED: Joe Lee DATE: APR/25/2005 DRAWN: S.H.CHEN PAGE: 1 OF 3 ERP:1331000008

# Kingbright

#### **Selection Guide**

Part No.	Dice	Lens Type	Iv (ucd) @ 10mA		Description
			Min.	Тур.	
DC10EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	1900	9000	10 Segments Bargraph-Display

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD	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	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR = 5V

# 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	erating / storage Temperature -40°C To +85°C			
Lead Solder Temperature [2]	260°C For 5 Seconds			

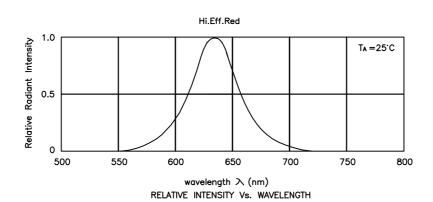
#### Notes

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

2. 5mm below package base.

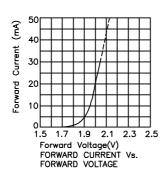
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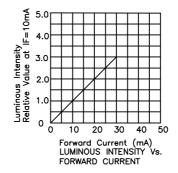
# **Kingbright**

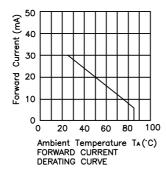


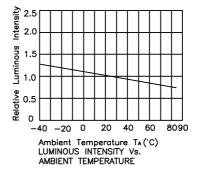
**High Efficiency Red** 

DC10EWA









### Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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