# Kingbright

# 20.32mm (0.8INCH) 16 SEGMENT SINGLE DIGIT ALPHANUMERIC DISPLAY

PSA08-11EWA

HIGH EFFICIENCY RED

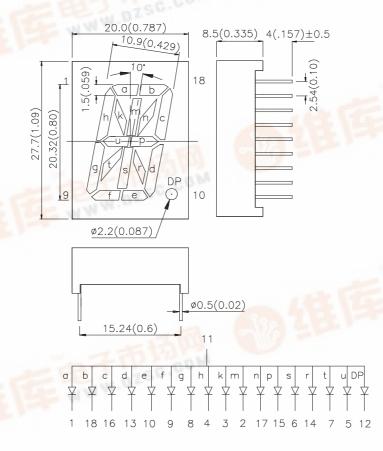
#### **Features**

- •0.8 INCH CHARACTER HEIGHT.
- •LOW CURRENT OPERATION.
- •HIGH CONTRAST AND LIGHT OUTPUT.
- COMMON CATHODE AND COMMON ANODE
  AVAILABLE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •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



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: DSAB5489 REV NO: V.4 DATE: APR/23/2005 PAGE: 1 OF 3

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## **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) @ 10mA		Description	
			Min.	Тур.		
PSA08-11EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	1200	4700	Common Anode, Rt. Hand Decimal.	

## 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

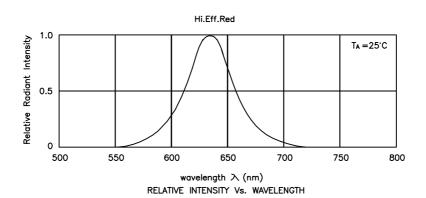
Parameter	High Efficiency Red	Units		
Power dissipation	105	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	Solder Temperature [2] 260°C For 5 Seconds			

#### Notes:

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 5mm below package base.

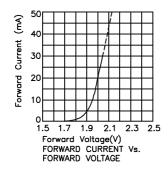
SPEC NO: DSAB5489 REV NO: V.4 DATE: APR/23/2005 PAGE: 2 OF 3

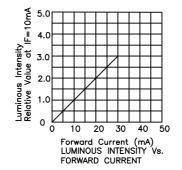
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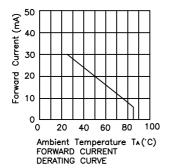


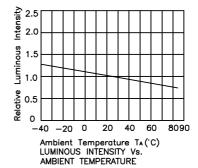
**High Efficiency Red** 

PSA08-11EWA









#### 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.

SPEC NO: DSAB5489 REV NO: V.4 DATE: APR/23/2005 PAGE: 3 OF 3