

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

PSA08-12EWA

HIGH EFFICIENCY RED

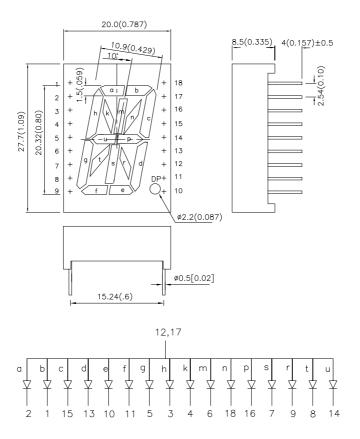
Features

- •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.

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SPEC NO: DSAC1576

REV NO: V.4 CHECKED: Joe Lee DATE: APR/23/2005 DRAWN: W.J.ZHU PAGE: 1 OF 3 ERP:1311000044

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Selection Guide

Part No.	Dice	Lens Type	lv (ucd) @ 10mA		Description	
			Min.	Тур.	-	
PSA08-12EWA	HIGH EFFICIENCY RED(GaAsP/GaP)	WHITE DIFFUSED	1200	4700	Common Anode	

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	I=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]	260°C For 5 Seconds			

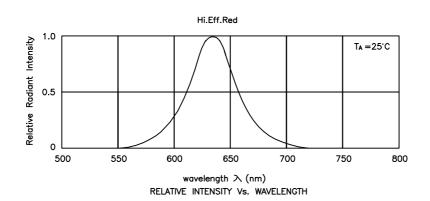
Notes

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

2. 5mm below package base.

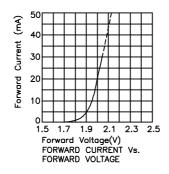
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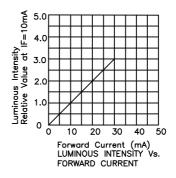
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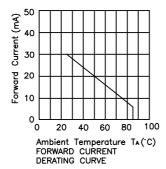


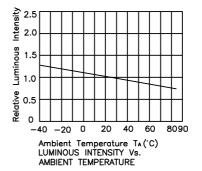
High Efficiency Red

PSA08-12EWA









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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