

### 20.32mm (0.8INCH) SINGLE DIGIT NUMERIC DISPLAY

Part Number: SA08-13EWA

HIGH EFFICIENCY RED

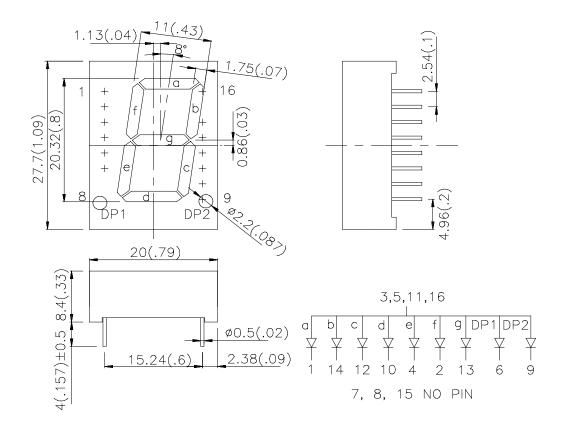
#### **Features**

- •0.8 INCH DIGIT HEIGHT.
- •LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- •EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- •I.C. COMPATIBLE.
- •CATEGORIZED FOR LUMINOUS INTENSITY.
- •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

- All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01") unless otherwise noted.
- 2. Specifications are subject to change without notice.

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 APPROVED: J. Lu
 CHECKED: Joe Lee
 DRAWN: Y.L.LI
 ERP: 1301000124

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#### **Selection Guide**

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
		7.	Min.	Тур.	•
SA08-13EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	1200	6400	Common Anode, Rt.& Lt. 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 [1]	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 [2]	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 3 Seconds			

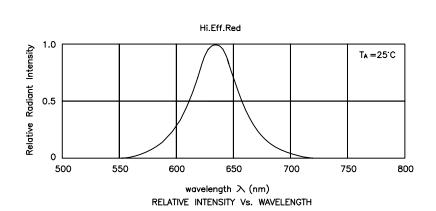
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.

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<sup>1.</sup>Luminous Intensity/ Luminous Flux: +/-15%

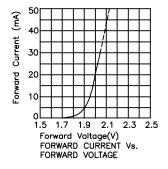
<sup>1.</sup>Wavelength: +/-1nm. 2.Forward Voltage: +/-0.1V.

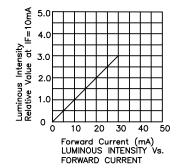
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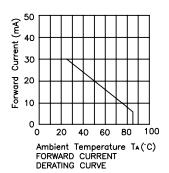


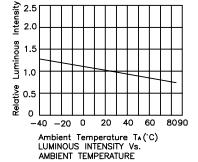
**High Efficiency Red** 

**SA08-13EWA** 





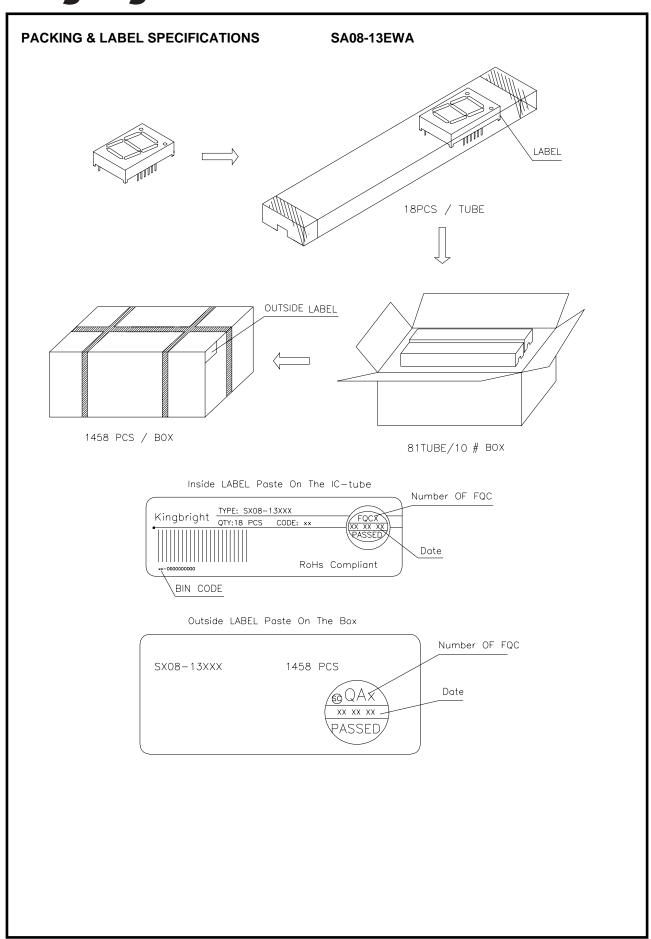




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