

56.9mm (2.3 INCH) SINGLE DIGIT NUMERIC DISPLAY

P/N: SA23-12EWA

HIGH EFFICIENCY RED

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ERP:1301000239

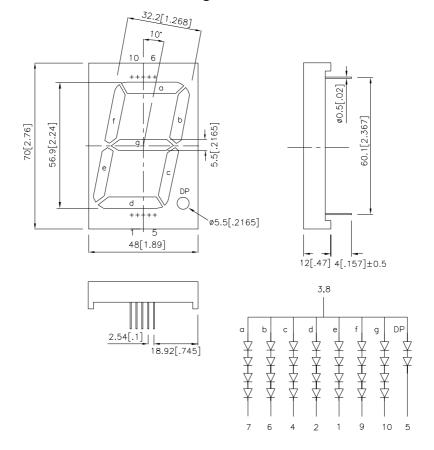
Features

- ●2.3 INCH DIGIT HEIGHT.
- ●LOW CURRENT OPERATION.
- •EXCELLENT CHARACTER APPEARANCE.
- •HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C.BOARDS OR SOCKETS.
- ●I.C. COMPATIBLE.
- •MULTICOLOR AVAILABLE.
- •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: DSAA6431 REV NO: V.5 DATE: NOV/22/2005
APPROVED: J. Lu CHECKED: Joe Lee DRAWN: Y.L.LI

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Selection Guide

Part No.	Dice	Lens Type	lv (ucd) @ 10mA		Description
			Min.	Тур.	•
SA23-12EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	4700	18000	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 Per Segment or (Dp)	High Efficiency Red	8.2 (4.0)	10 (5)	V	IF=20mA
lR	Reverse Current Per Segment or (Dp)	High Efficiency Red		10	uA	VR = 20V (VR = 10V)

Absolute Maximum Ratings at Ta=25°C

Parameter	High Efficiency Red	Units		
Power dissipation Per Segment or (Dp)	300(150)	mW		
DC Forward Current Per Segment or (Dp)	30	mA		
Peak Forward Current [1] Per Segment or (Dp)	160	mA		
Reverse Voltage Per Segment or (Dp)	20(10)	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 5 Seconds			

Notes:

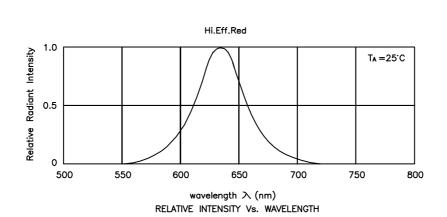
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

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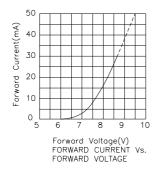
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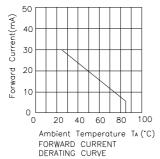
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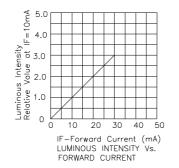


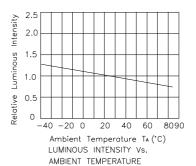
High Efficiency Red

SA23-12EWA





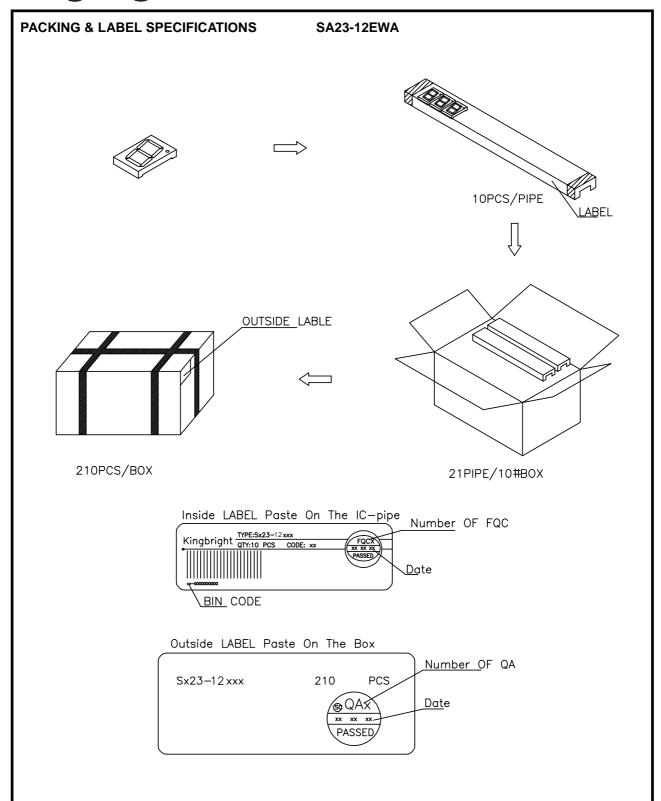




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Remarks

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

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

Note: Accuracy may depend on the sorting parameters.

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