

Part Number: SA40-18EWA

HIGH EFFICIENCY RED

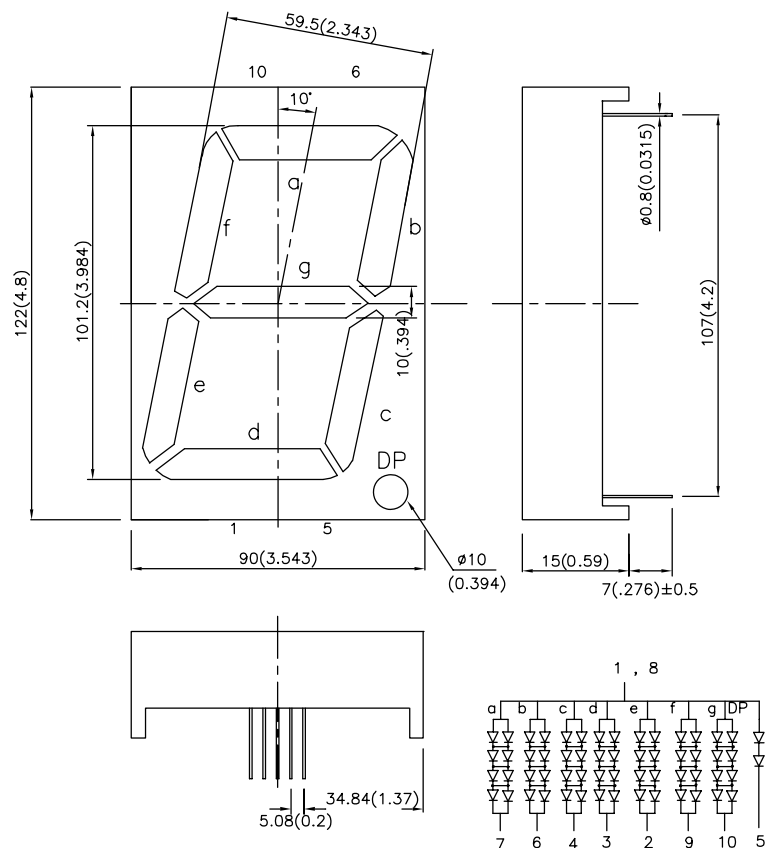
Features

- LARGE SIZE.
- 4.0 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- 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.

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
SA40-18EWA	HIGH EFFICIENCY RED(GaAsP/GaP)	WHITE DIFFUSED	12000	44000	Common Anode, Rt. Hand Decimal.

Note:

1.Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λ_D [1]	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
C	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage Per Segment (Dp)	High Efficiency Red	7.6 (4.0)	10 (5.0)	V	IF=20mA
IR	Reverse Current Per Segment (Dp)	High Efficiency Red		20 (10)	uA	VR = 20V (VR = 10V)

Notes:

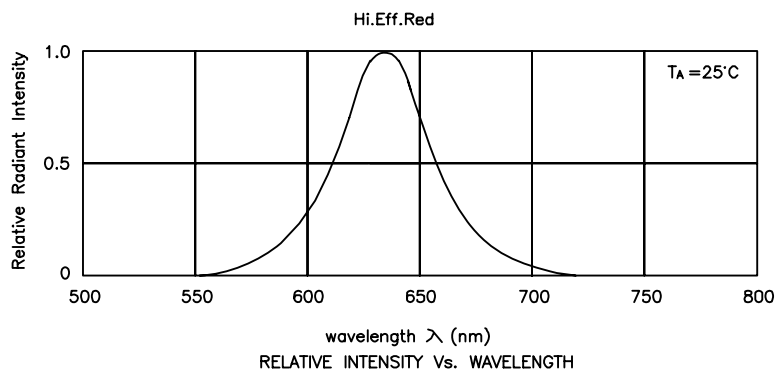
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units
Power dissipation Per Segment or (Dp)	600(150)	mW
DC Forward Current Per Segment or (Dp)	60 (30)	mA
Peak Forward Current [1] Per Segment or (Dp)	320 (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 3 Seconds	

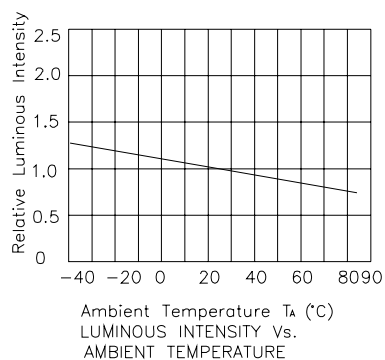
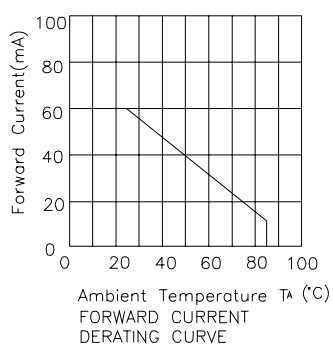
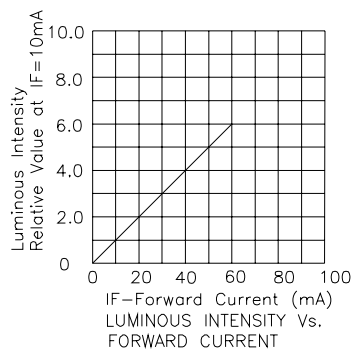
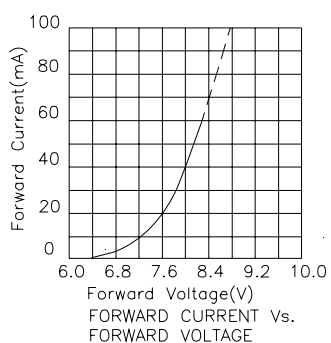
Notes:

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



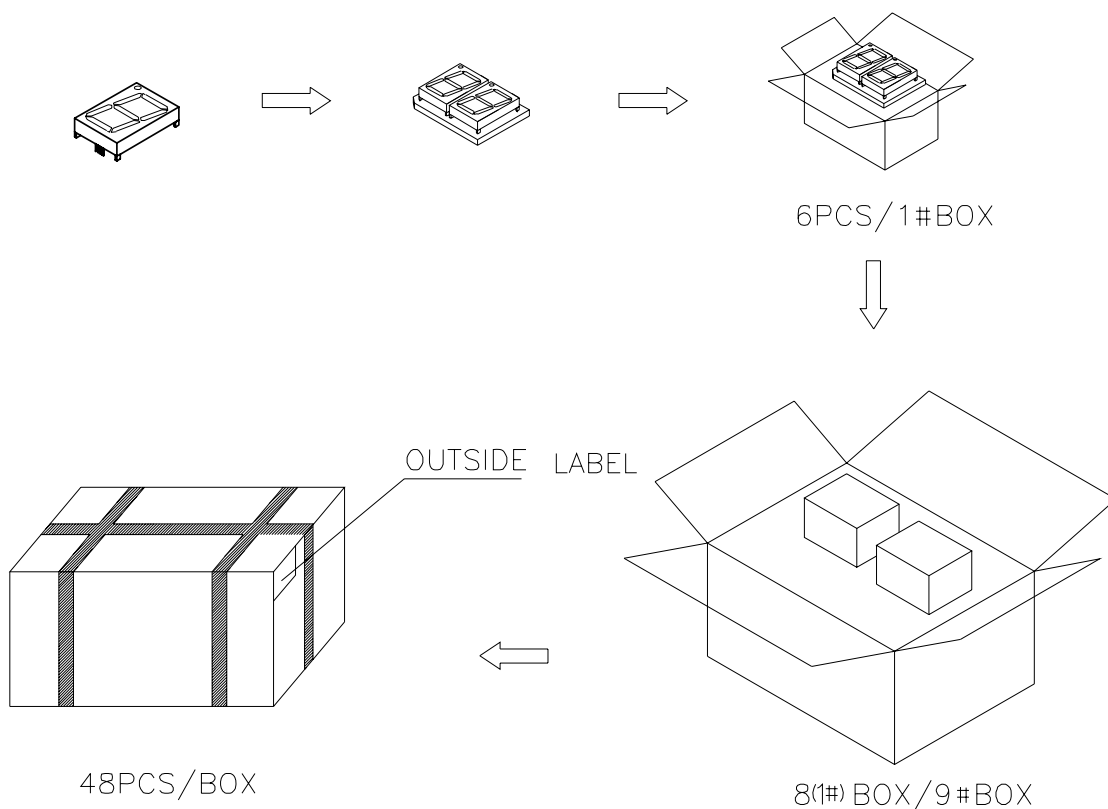
High Efficiency Red

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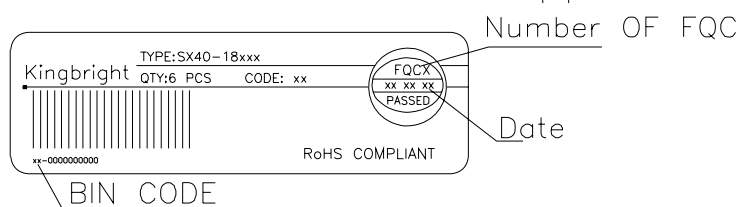


PACKING & LABEL SPECIFICATIONS

SA40-18EWA



Inside LABEL Paste On The IC-pipe



Outside LABEL Paste On The Box

