

Part Number: SA40-19EWA HIGH EFFICIENCY RED

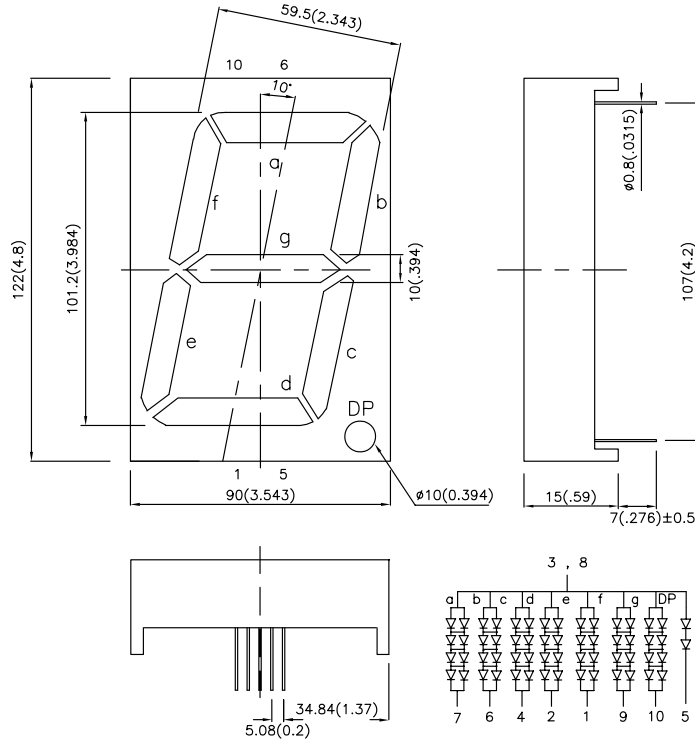
### Features

- 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.	
SA40-19EWA	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
$\lambda_{peak}$	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
$\lambda_D$ [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.

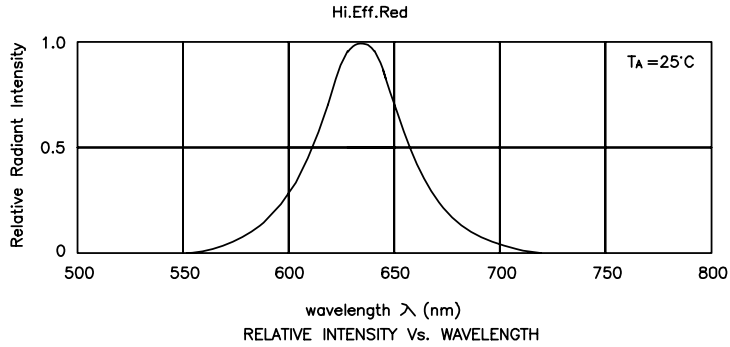
## Absolute Maximum Ratings at TA=25°C

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:

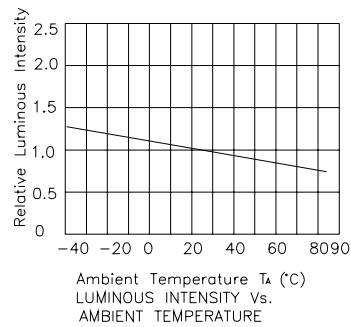
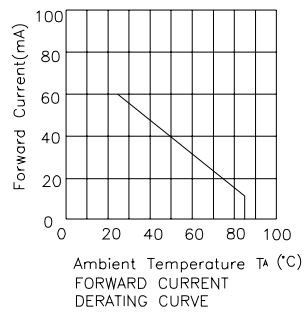
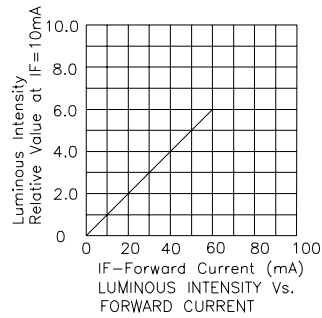
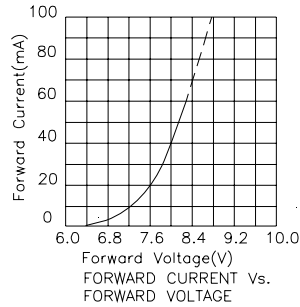
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.



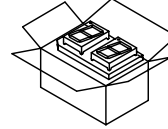
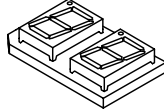
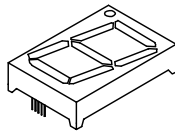
## High Efficiency Red

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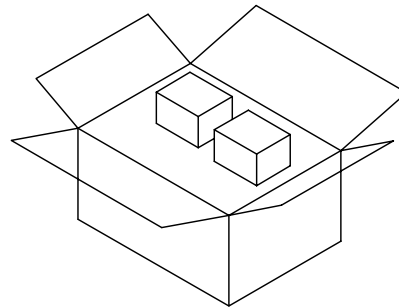


## PACKING & LABEL SPECIFICATIONS

## SA40-19EWA



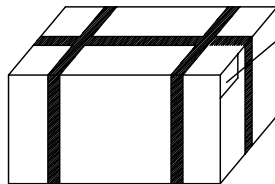
6PCS/1#BOX



8 (1#BOX) / 9#BOX

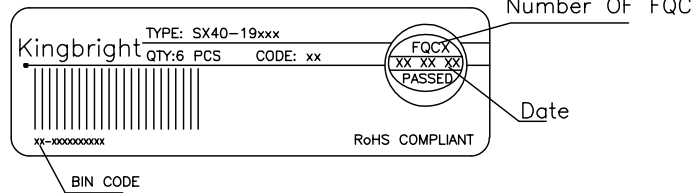


OUTSIDE LABEL



48PCS/BOX

Inside LABEL Paste On The IC-pipe



Outside LABEL Paste On The Box

