

PRELIMINARY SPEC

P/N: SA40-19SURWA

HYPER RED

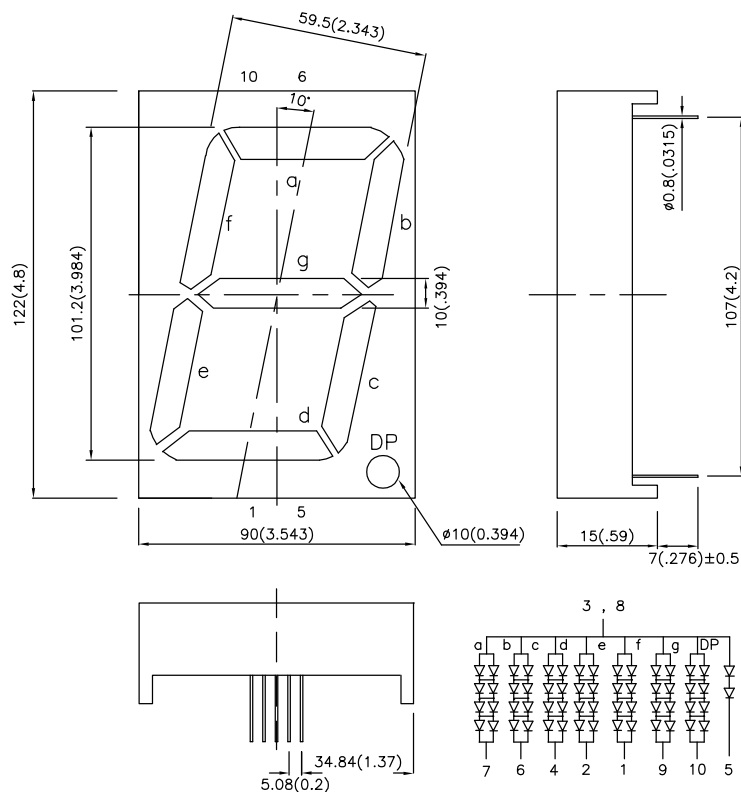
Features

- 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 Hyper Red source color devices are made with DH InGaAlP on GaAs substrate 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.	
SA40-19SURWA	HYPER RED (InGaAlP)	WHITE DIFFUSED	44000	214000	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	Hyper Red	640		nm	IF=20mA
λ_D [1]	Dominate Wavelength	Hyper Red	628		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Red	27		nm	IF=20mA
C	Capacitance	Hyper Red	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage Per Segment or (Dp)	Hyper Red	7.4 (3.8)	10 (5.0)	V	IF=20mA
IR	Reverse Current Per Segment or (Dp)	Hyper Red		20 (10)	uA	VR = 20V (VR = 10V)

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

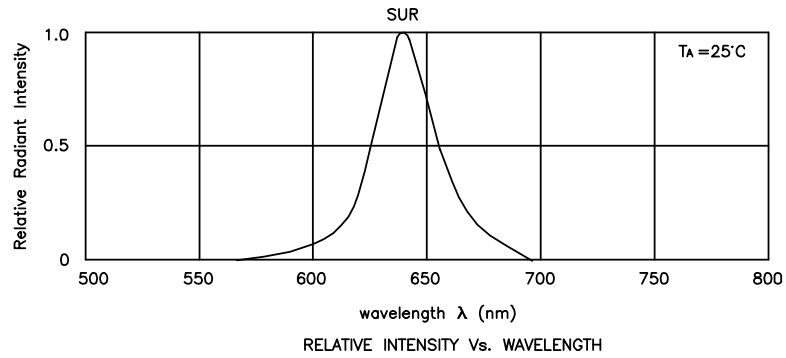
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper 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)	370 (185)	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:

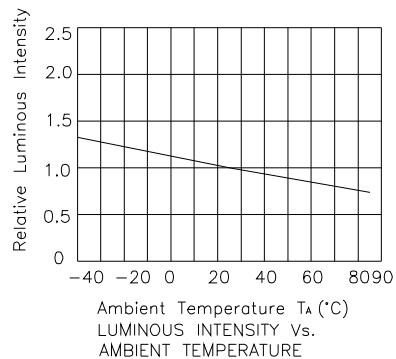
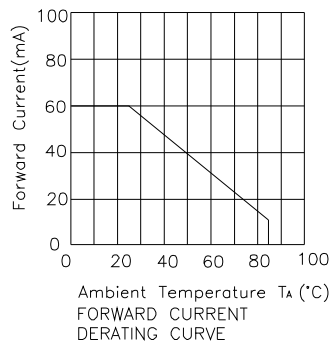
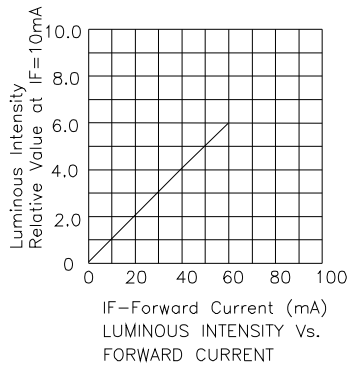
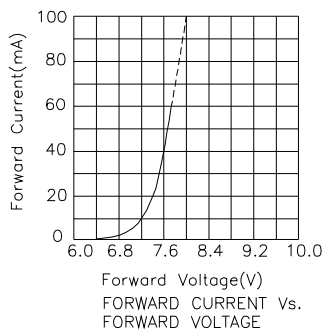
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.



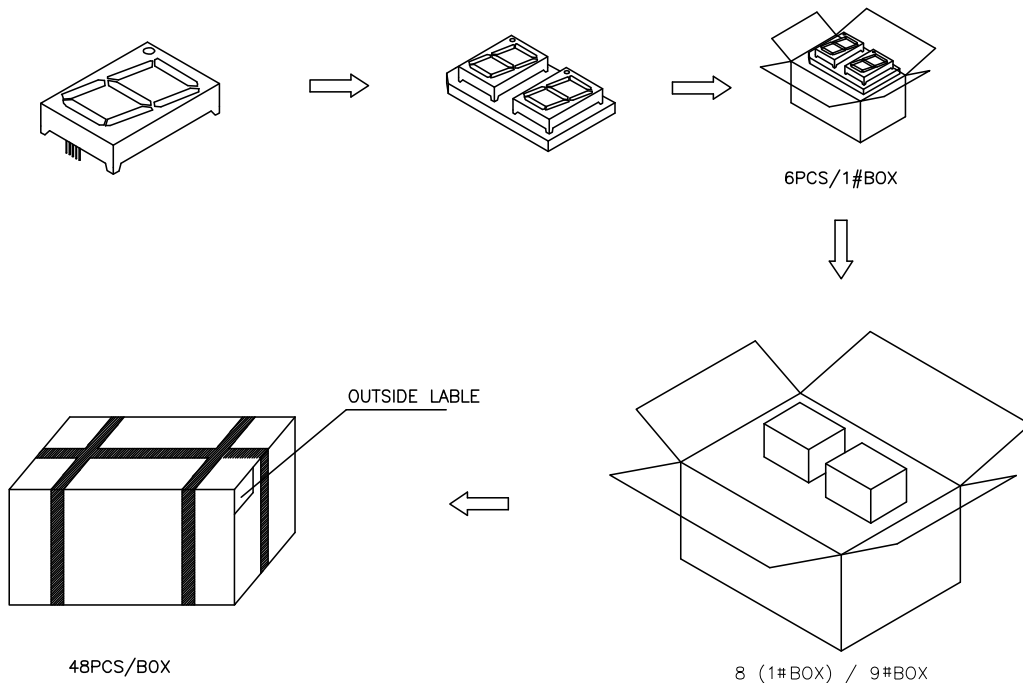
Hyper Red

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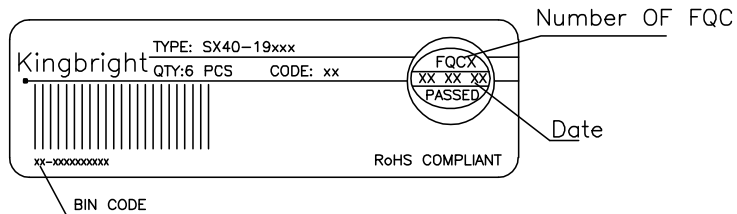


PACKING & LABEL SPECIFICATIONS

SA40-19SURWA



Inside LABEL Paste On The IC-pipe



Outside LABEL Paste On The Box

