

PRELIMINARY SPEC

Part Number: SA40-19SGWA SUPER BRIGHT GREEN

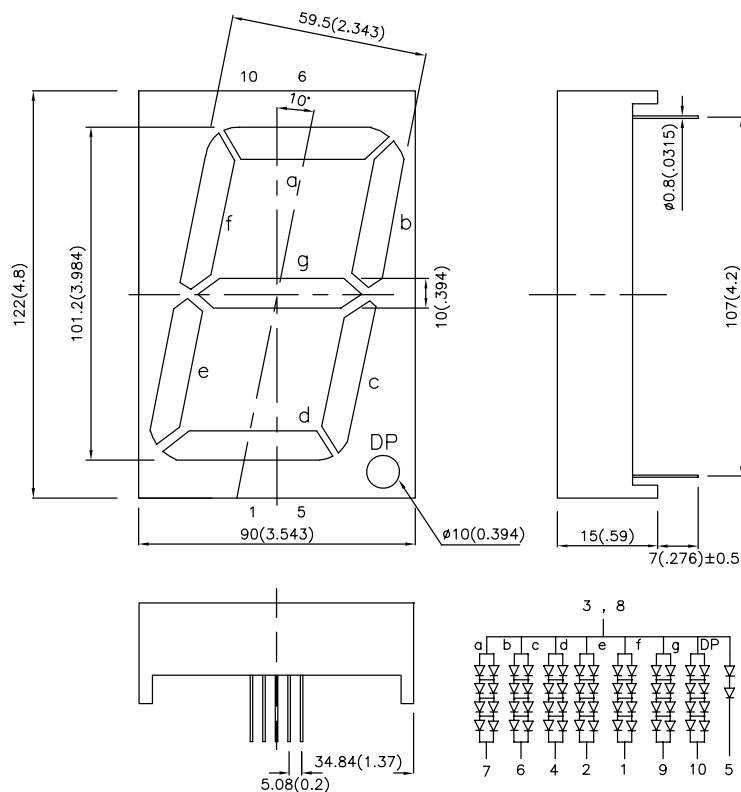
Features

- 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 Super Bright Green source color devices are made with Gallium Phosphide Green 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.	
SA40-19SGWA	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	18000	101000	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	Super Bright Green	565		nm	IF=20mA
λ_D [1]	Dominant Wavelength	Super Bright Green	568		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA
C	Capacitance Per Segment or (DP)	Super Bright Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage Per Segment or (DP)	Super Bright Green	8.0 (4.0)	10.0 (5.0)	V	IF=20mA
IR	Reverse Current Per Segment or (DP)	Super Bright Green		20 (10)	uA	VR= 20V (VR=10V)

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

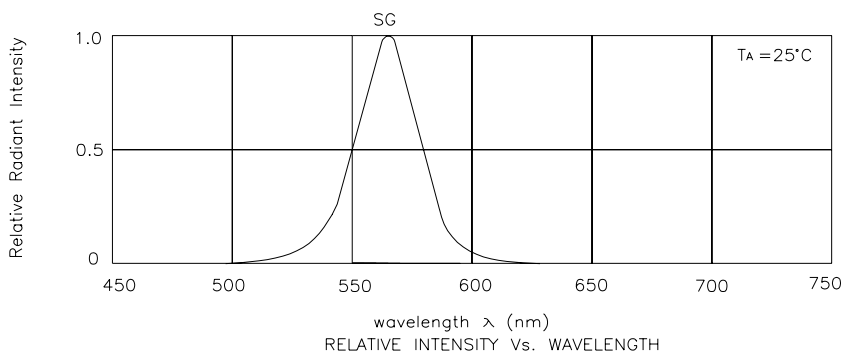
Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Green	Units
Power dissipation Per Segment or (DP)	500 (125)	mW
DC Forward Current Per Segment or (DP)	50 (25)	mA
Reverse Current Per Segment or (DP)	20 (10)	V
Peak Forward Current[1] Per Segment or (DP)	280 (140)	mA
Operating/storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3-5 Seconds	

Notes:

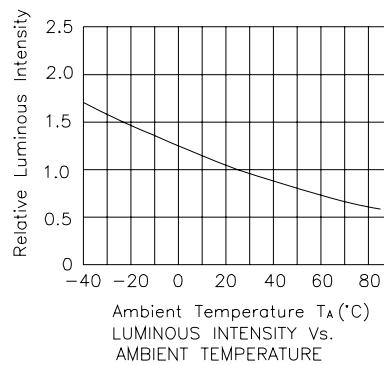
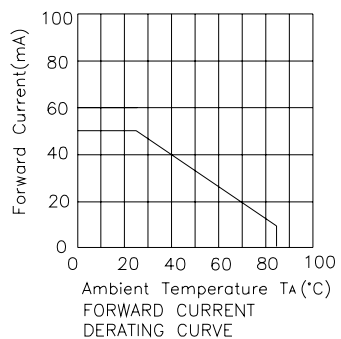
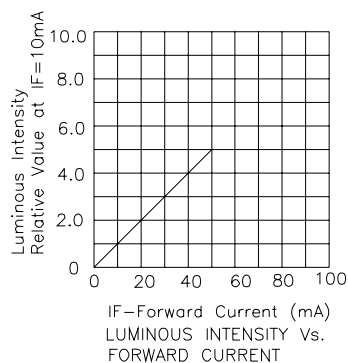
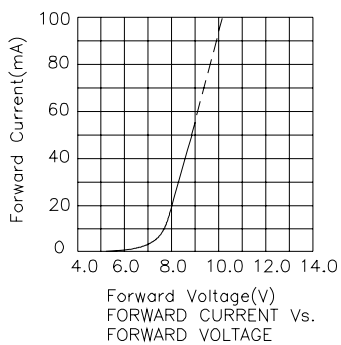
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.



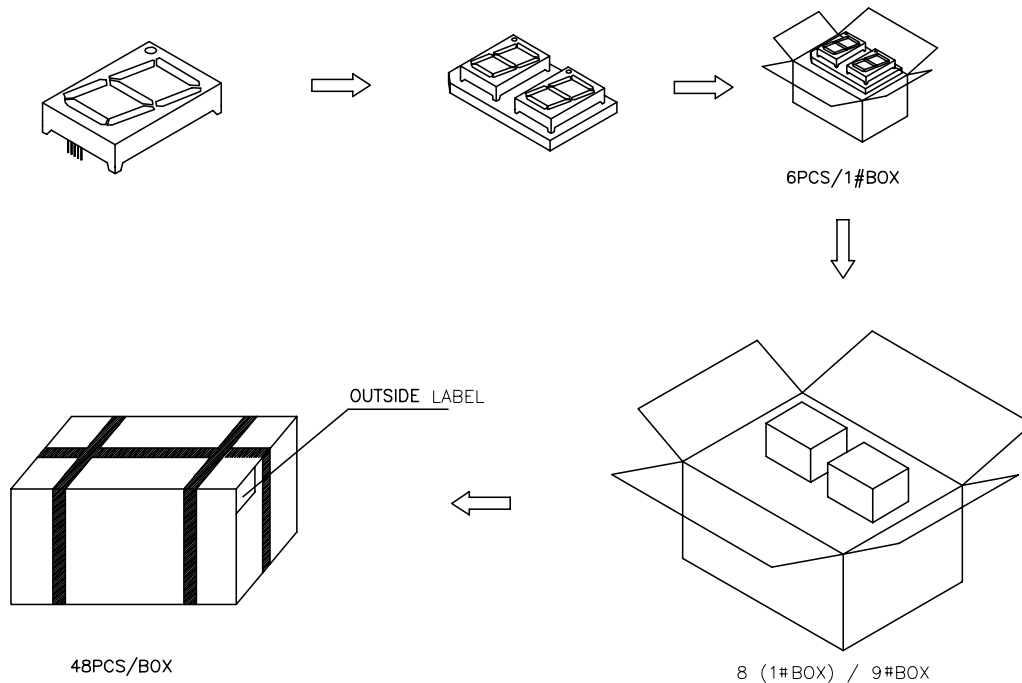
Super Bright Green

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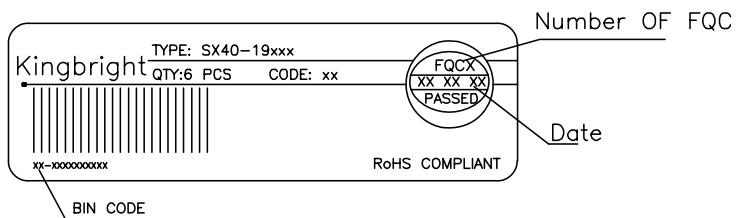


PACKING & LABEL SPECIFICATIONS

SA40-19SGWA



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

