Kingbright

100mm (4.0INCH) SINGLE DIGIT NUMERIC DISPLAY

P/N: SA40-19SGWA SUPER BRIGHT GREEN

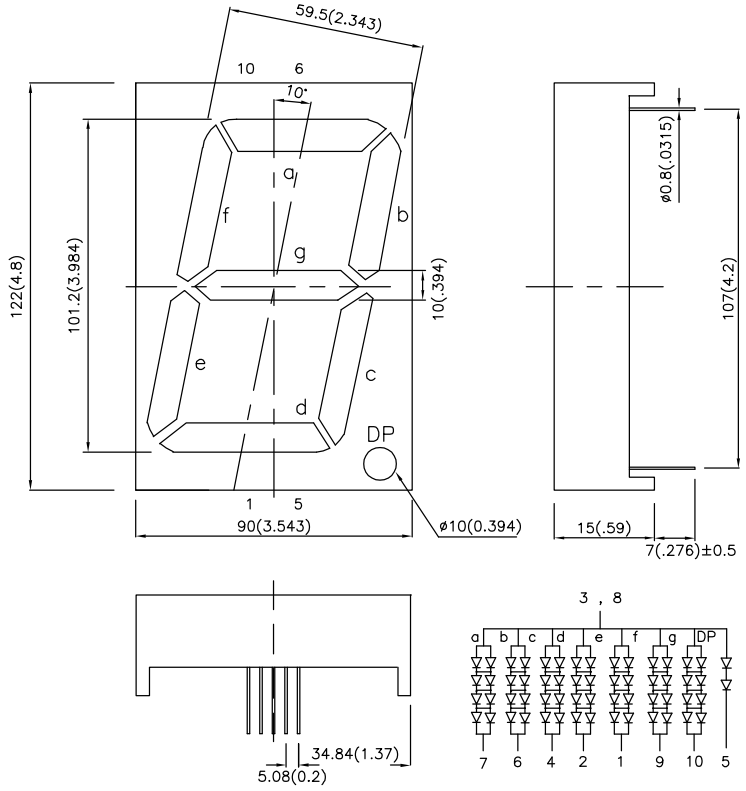
Features

- ●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 ±0.25(0.01")unless otherwise noted.
2. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 10mA		Description
			Min.	Typ.	
SA40-19SGWA	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	4700	21000	Common Anode, Rt. Hand Decimal.

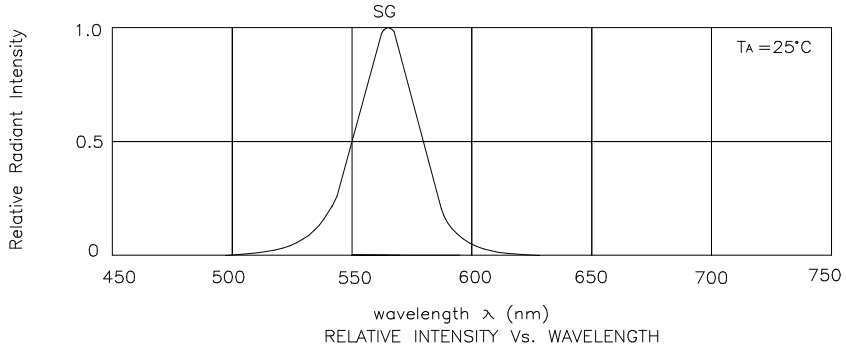
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	I_F=20mA
λD	Dominant Wavelength	Super Bright Green	568		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	I_F=20mA
C	Capacitance Per Segment or (DP)	Super Bright Green	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage Per Segment or (DP)	Super Bright Green	8.0 (4.0)	10.0 (5.0)	V	I_F=20mA
I_R	Reverse Current Per Segment or (DP)	Super Bright Green		20 (10)	uA	VR= 20V (VR=10V)

Absolute Maximum Ratings at T_A=25°C

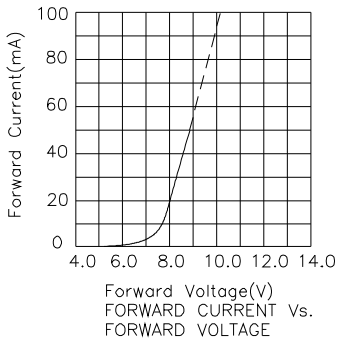
Parameter	Super Bright Green	Units
Power dissipation Per Segment or (DP)	500 (125)	mW
DC Forward Current Per Segment or (DP)	50 (25)	mA
Reverse Current Per Segment or (DP)	20 (10)	V
Peak Forward Current[1] Per Segment or (DP)	280 (140)	mA
Operating/storage Temperature	-40°C To +85°C	
Lead Solder Temperature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

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

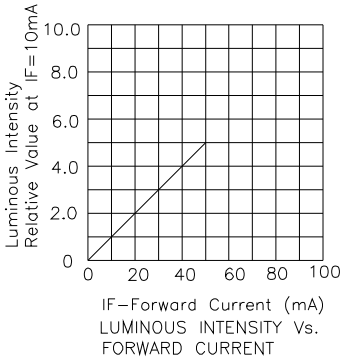


RELATIVE INTENSITY Vs. WAVELENGTH

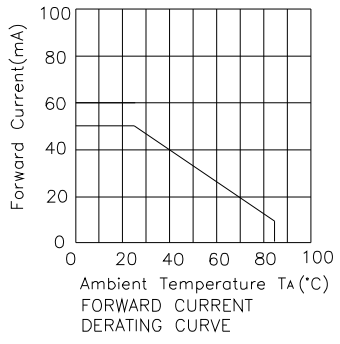
Super Bright Green **SA40-19SGWA**



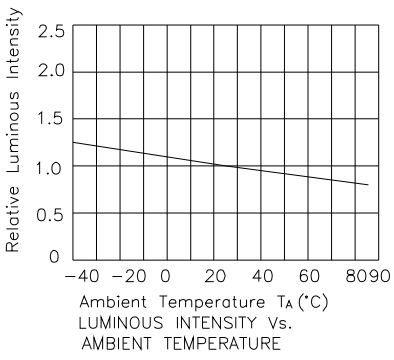
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

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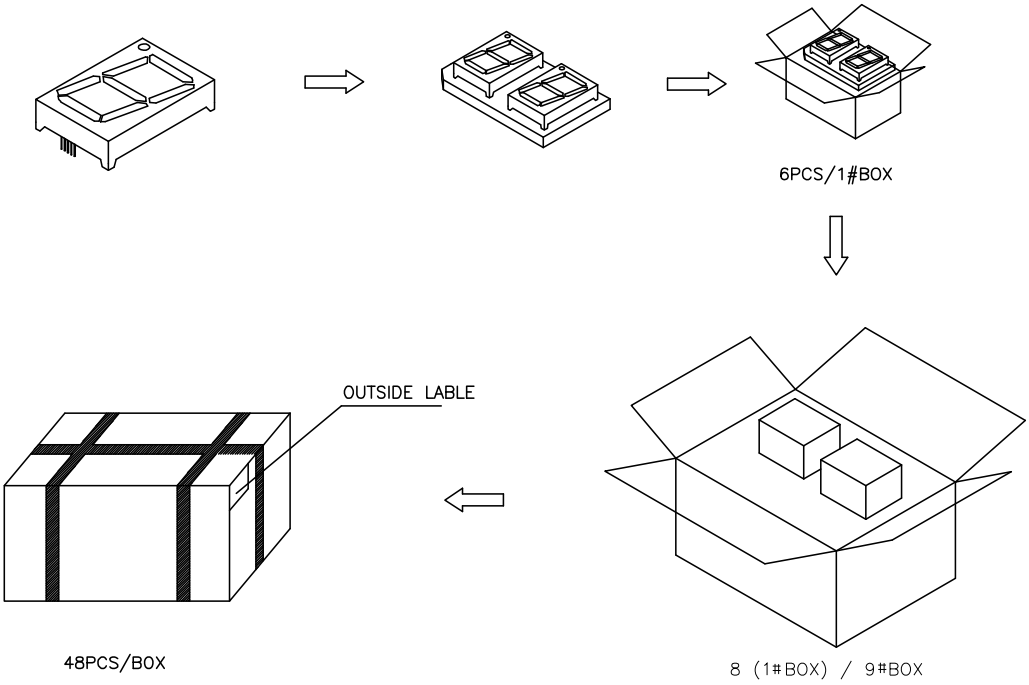
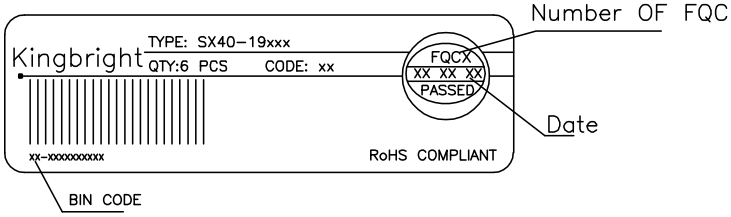
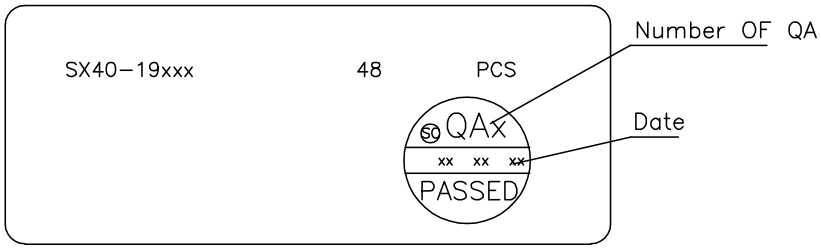
PACKING & LABEL SPECIFICATIONS **SA40-19SGWA**



Inside LABEL Paste On The IC-pipe



Outside LABEL Paste On The Box



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.