

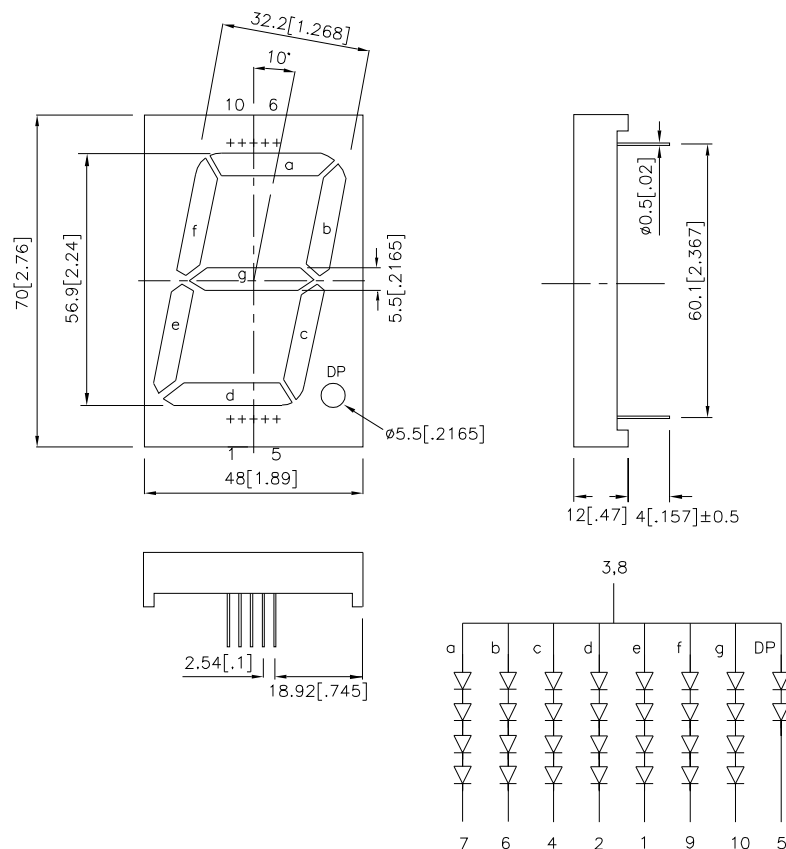
### Features

- 2.3 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C.BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MULTICOLOR AVAILABLE.
- MECHANICALLY RUGGED.
- STANDARD : BLACK 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) @ 10mA		Description
			Min.	Typ.	
SA23-12SGWB	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	4700	23000	Common Anode, Rt. Hand Decimal.

## Electrical / Optical Characteristics at TA=25°C

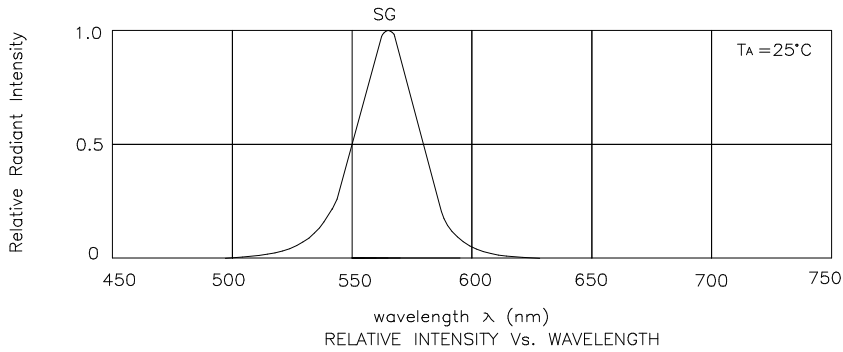
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Super Bright Green	565		nm	IF=20mA
$\lambda_D$	Dominant Wavelength	Super Bright Green	568		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA
C	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF	Forward Voltage Per Segment (DP)	Super Bright Green	8.8 (4.4)	10.0 (5.0)	V	IF=20mA
IR	Reverse Current Per Segment (DP)	Super Bright Green		10 (10)	uA	VR = 20V (VR = 10V)

## Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Green	Units
Power dissipation Per Segment (DP)	250(125)	mW
DC Forward Current Per Segment (DP)	25(25)	mA
Peak Forward Current [1] Per Segment (DP)	140(140)	mA
Reverse Voltage Per Segment (DP)	20(10)	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

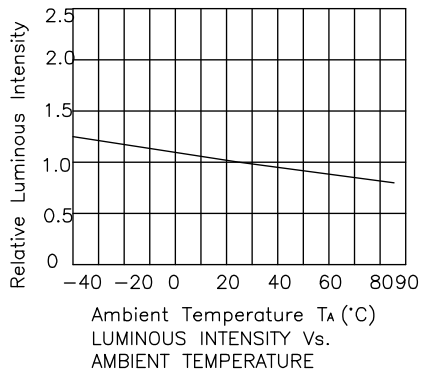
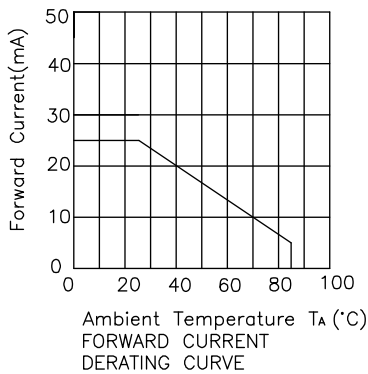
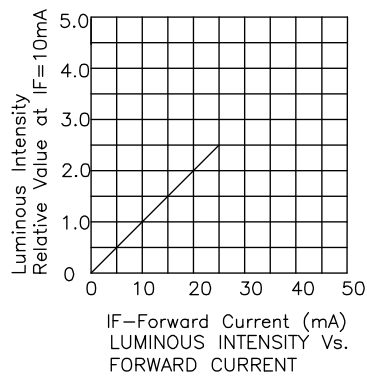
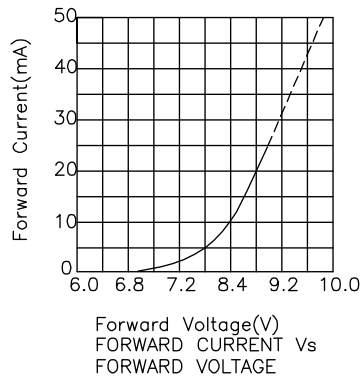
Notes:

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



## Super Bright Green

## SA23-12SGWB



### Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.