# Kingbright

SA52-11GWA   GREEN

Features

●0.52 INCH DIGIT HEIGHT.

●EXCELLENT CHARACTER APPEARANCE.

●EASY MOUNTING ON P.C. BOARDS OR SOCKETS.

●I.C. COMPATIBLE.

●MECHANICALLY RUGGED.

●STANDARD : GRAY FACE, WHITE SEGMENT.

●RoHS COMPLIANT.

Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions & Internal Circuit Diagram
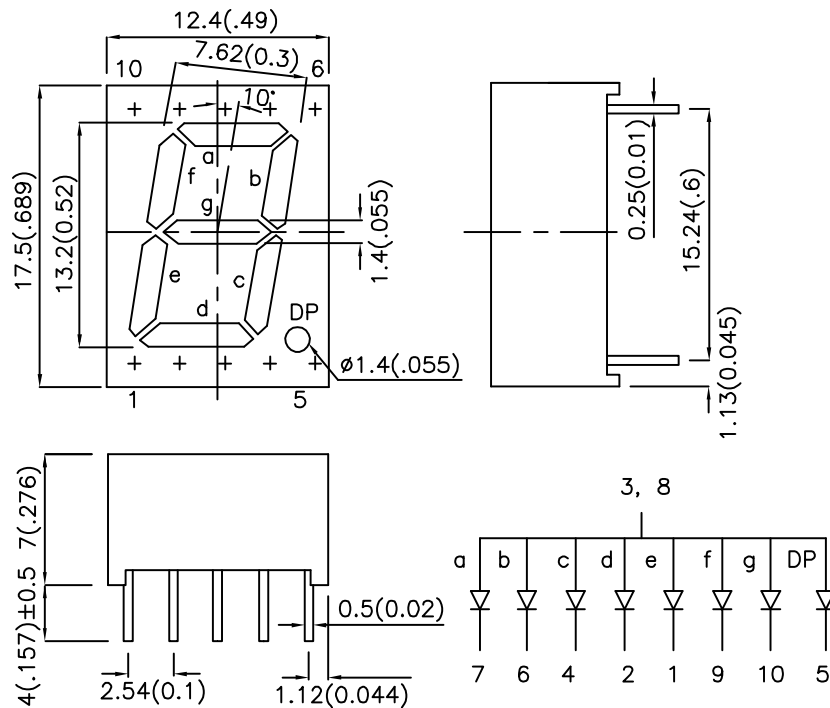
Notes:
1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
2. Specifications are subject to change without notice.

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Selection Guide

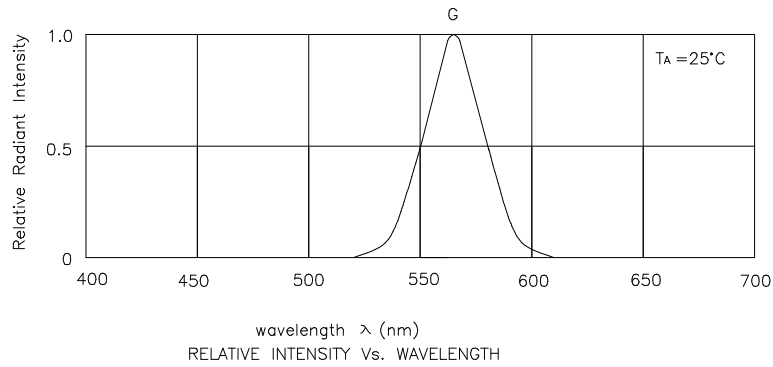| Part No.	Dice	Lens Type	Iv (ucd) @ 10mA Min.	Iv (ucd) @ 10mA Typ.	Description
SA52-11GWA	GREEN(GaP)	WHITE DIFFUSED	1900	10500	Common Anode,Rt. Hand Decimal.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	I_F=20mA
λD	Dominant Wavelength	Green	568		nm	I_F=20mA
$\Delta\lambda$1/2	Spectral Line Half-width	Green	30		nm	I_F=20mA
C	Capacitance	Green	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	Green	2.2	2.5	V	I_F=20mA
I_R	Reverse Current	Green		10	uA	V_R = 5V

Absolute Maximum Ratings at T_A=25°C

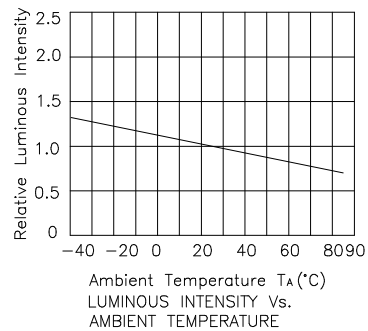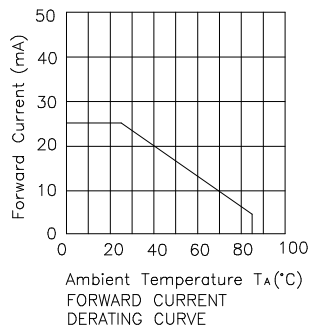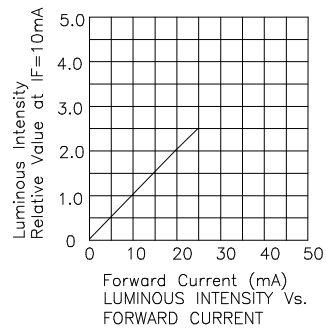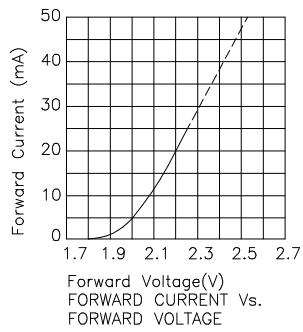| Parameter	Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

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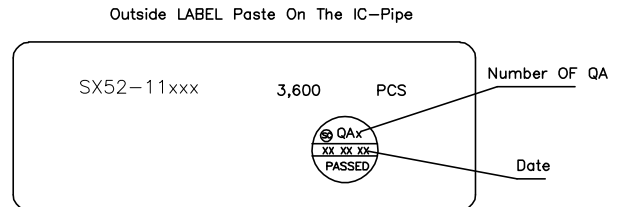1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.

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Relative Radiant Intensity

$T_A = 25°C$

wavelength λ (nm)
RELATIVE INTENSITY Vs. WAVELENGTH

Green   **SA52-11GWA**

Forward Current (mA)

Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE

Luminous Intensity
Relative Value at IF=10mA

Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT

Forward Current (mA)

Ambient Temperature T_A(°C)
FORWARD CURRENT
DERATING CURVE

Relative Luminous Intensity

Ambient Temperature T_A(°C)
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

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40PCS/PIPE

LABEL

OUTSIDE LABEL

SHIPPINGMARK

3600PCS/BOX

90PIPE/10 # BOX

Inside LABEL Paste On The IC—Pipe

Kingbright Type: SX52-11xxx
QTY: 40PCS CODE: XX

Number OF FQC

FQCX
XX XX XX
PASSED

Date

BARK CODE

RoHS Compliant

Outside LABEL Paste On The IC—Pipe

SX52—11xxx   3,600   PCS

Number OF QA

QAx
XX XX XX
PASSED

Date

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.