# Kingbright

Part Number: DC20/20GWA   Green

Features

- Suitable for level indicators.
- Low current operation.
- Excellent on/off contrast.
- End stackable.
- Mechanically rugged.
- Different colors in one unit available.
- 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

RECOMMENDED PCB LAYOUT
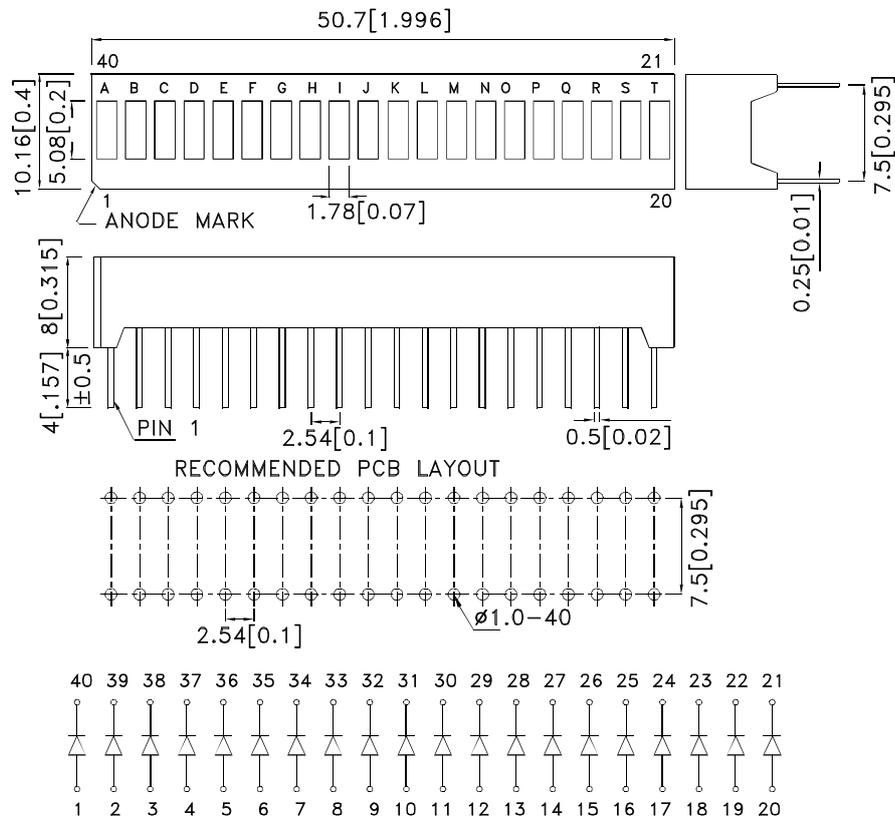
Notes:
1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
2. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
DC20/20GWA	Green (GaP)	WHITE DIFFUSED	1900	9000	20 Segments Bargraph-Display

Note:
1. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	I_F=20mA
λD [1]	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 [2]	Forward Voltage	Green	2.2	2.5	V	I_F=20mA
I_R	Reverse Current	Green		10	uA	V_R=5V

Notes:
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

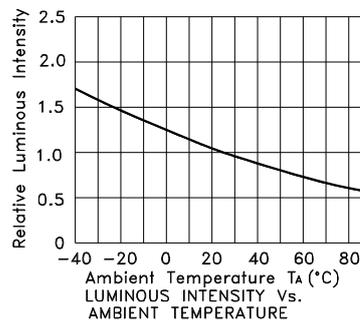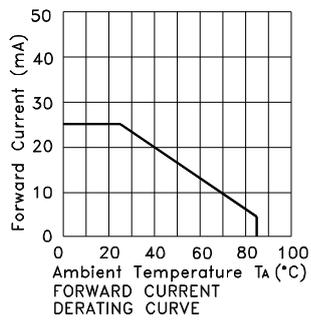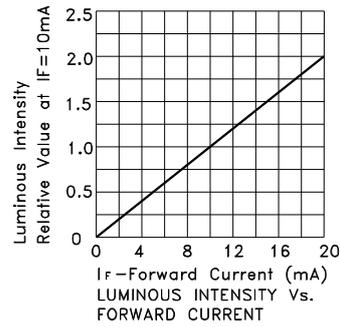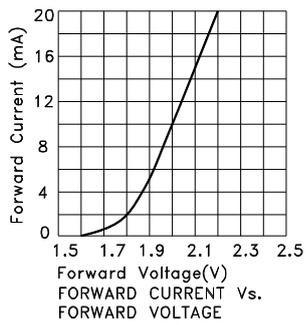| Parameter	Green	Units
Power dissipation	62.5	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[2]	260°C For 3-5 Seconds	

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

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Relative Radiant Intensity

GREEN

$T_A=25°C$

wavelength λ (nm)
RELATIVE INTENSITY Vs. WAVELENGTH

Green   DC20/20GWA

Forward Current (mA)

Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE

Luminous Intensity
Relative Value at IF=10mA

I_F—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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LABEL

10PCS/TUBE

OUTSIDE LABEL

2100PCS/BOX

210TUBE/BOX

Inside Label Paste On The IC-tube

Kingbright TYPE:DC20xxx
QTY:10 PCS CODE: xx

PASSED
xx xx xx
FQCx

Date
Number OF FQC

xxxxxxxxxxx-xxxx   RoHS Compliant

LOT NO.
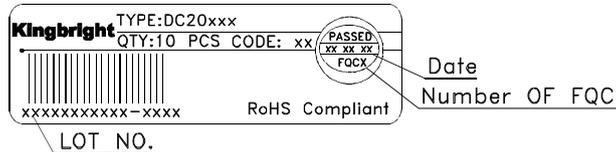
Outside Label Paste On The Box

XXXXXX

DC20xxx   Bin Code

2100 PCS   XX

Number OF QA

QAx
xx xx xx
PASSED

Date

RoHS Compliant
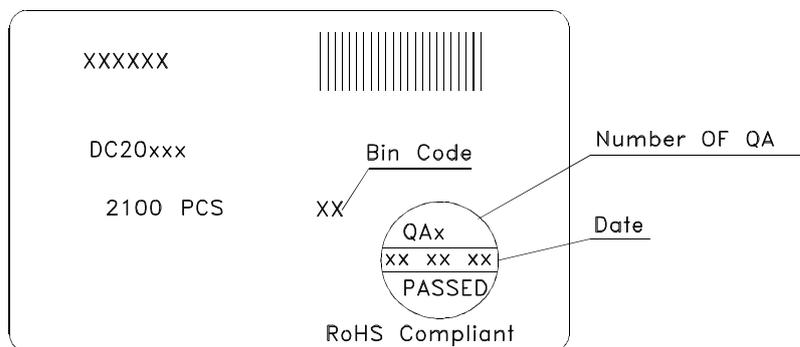
Mouser Electronics

Authorized Distributor

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