Kingbright

12SEGMENT BAR GRAPH ARRAY

P/N: DD-12GWB GREEN

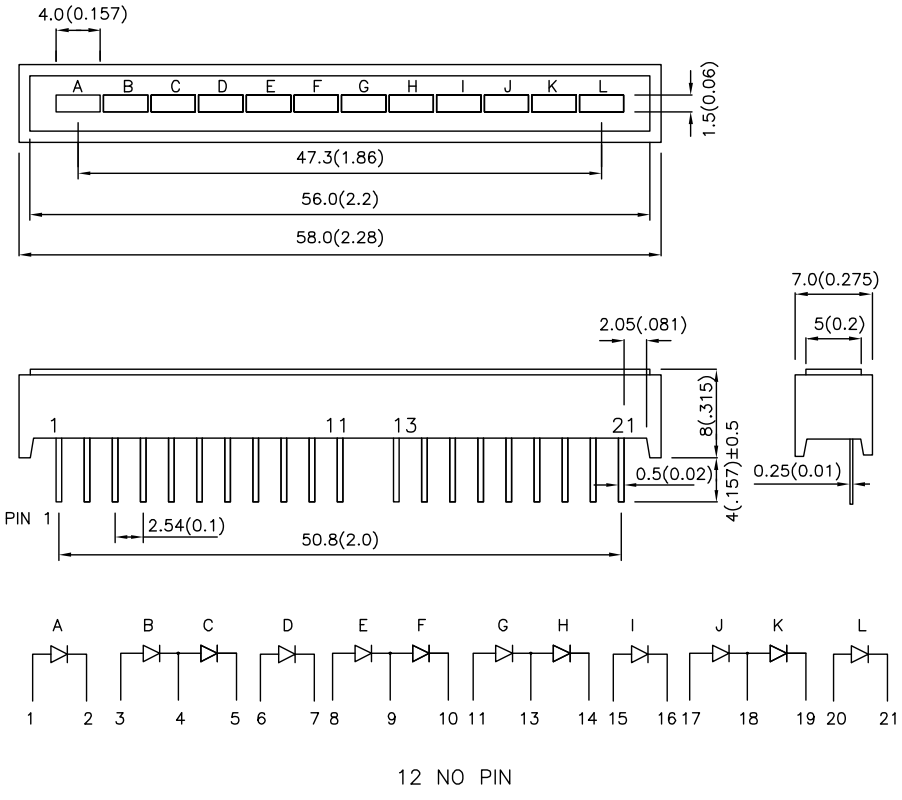
Features

- ●SUITABLE FOR LEVEL INDICATORS.
- ●LOW CURRENT OPERATION.
- ●WIDE VIEWING ANGLE.
- ●MECHANICALLY RUGGED.
- ●DIFFERENT COLORS IN ONE UNIT AVAILABLE.
- ●STANDARD: BLACK 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.

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 10mA		Description
			Min.	Typ.	
DD-12GWB	GREEN (GaP)	WHITE DIFFUSED	1200	5600	12 Segments Bargraph-Display

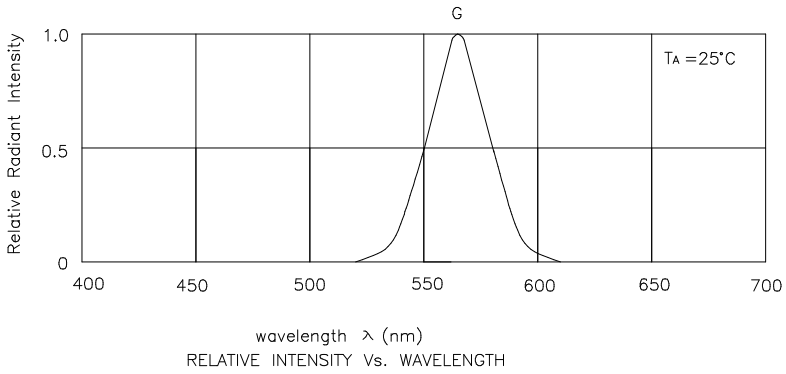
Electrical / Optical Characteristics at T_A=25°C

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
Δλ1/2	Spectral Line Half-width	Green	30		nm	I_F=20mA
C	Capacitance	Green	15		pF	V_F=0V;f=1MHz
V_F	Forward Voltage (Per Segment)	Green	2.2	2.5	V	I_F=20mA
I_R	Reverse Current (Per Segment)	Green		10	uA	V_R = 5V

Absolute Maximum Ratings at T_A=25°C

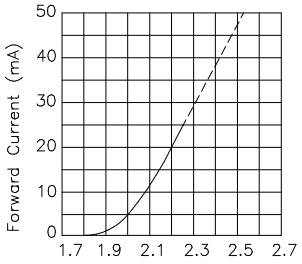
Parameter	Green	Units
Power dissipation (Per Segment)	105	mW
DC Forward Current (Per Segment)	25	mA
Peak Forward Current [1] (Per Segment)	140	mA
Reverse Voltage (Per Segment)	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

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

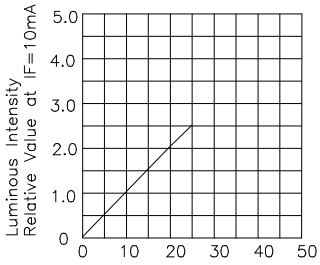


RELATIVE INTENSITY Vs. WAVELENGTH

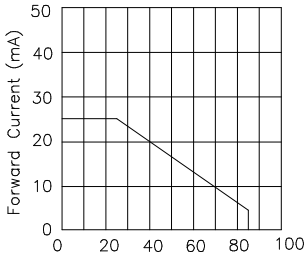
Green **DD-12GWB**



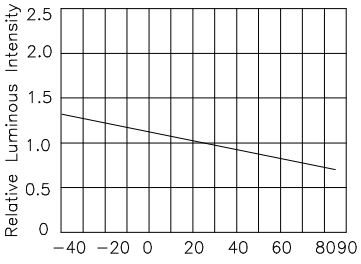
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

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.