Kingbright

12SEGMENT BAR GRAPH ARRAY

Part Number: DD-12GWB GREEN

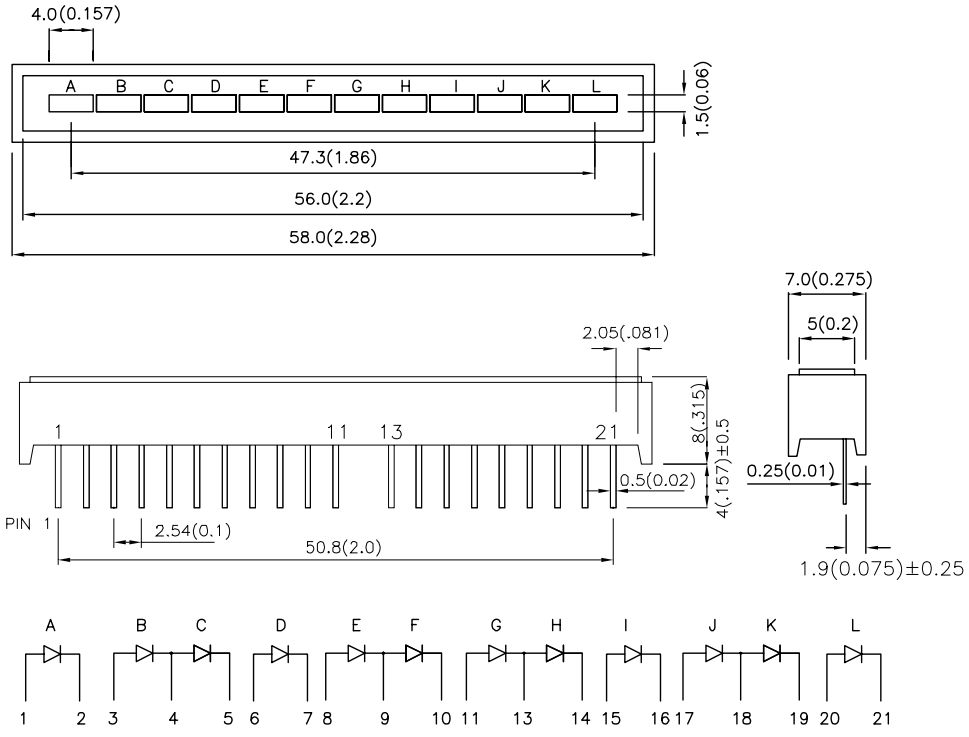
Features

- ●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.

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Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
DD-12GWB	GREEN (GaP)	WHITE DIFFUSED	3000	16000	12 Segments Bar graph-Display

Note:
1.Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at T_A=25°C

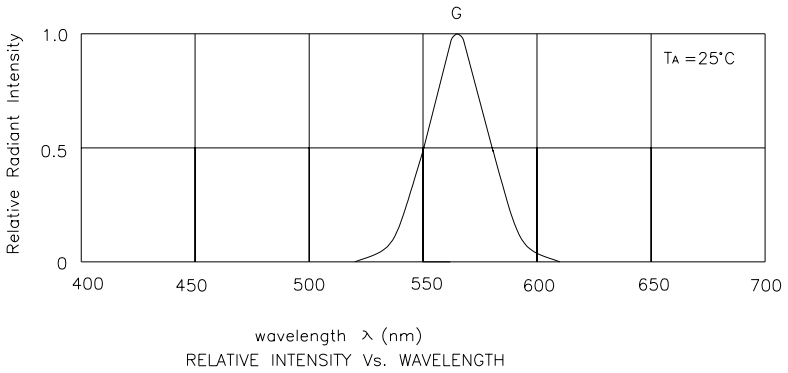
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	I_F=20mA
λD [1]	Dominant Wavelength	Green	568		nm	I_F=20mA
$\Delta\lambda$1/2	Spectral Line Half-width	Green	30		nm	I_F=20mA
C	Capacitance	Green	15		pF	V_F=0V;f=1MHz
V_F [2]	Forward Voltage (Per Segment)	Green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

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

Absolute Maximum Ratings at T_A=25°C

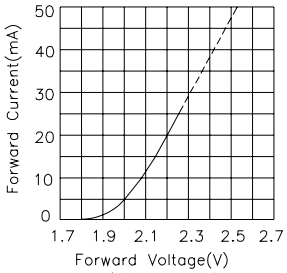
Parameter	Green	Units
Power dissipation (Per Segment)	62.5	mW
DC Forward Current (Per Segment)	25	mA
Peak Forward Current [1] (Per Segment)	140	mA
Reverse Voltage (Per Segment)	5	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3~5 Seconds	

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

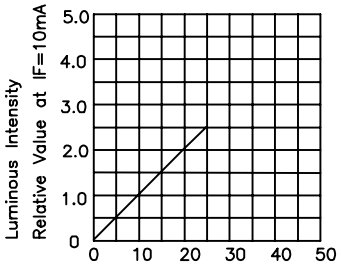


RELATIVE INTENSITY Vs. WAVELENGTH

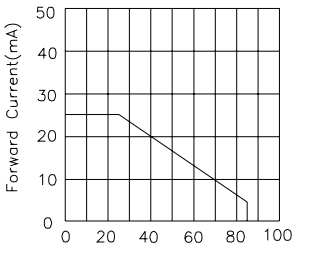
Green **DD-12GWB**



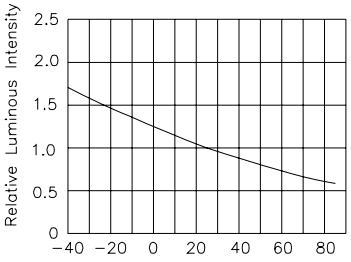
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE