

DD-8G4EWB

GREEN

HIGH EFFICIENCY RED

### 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

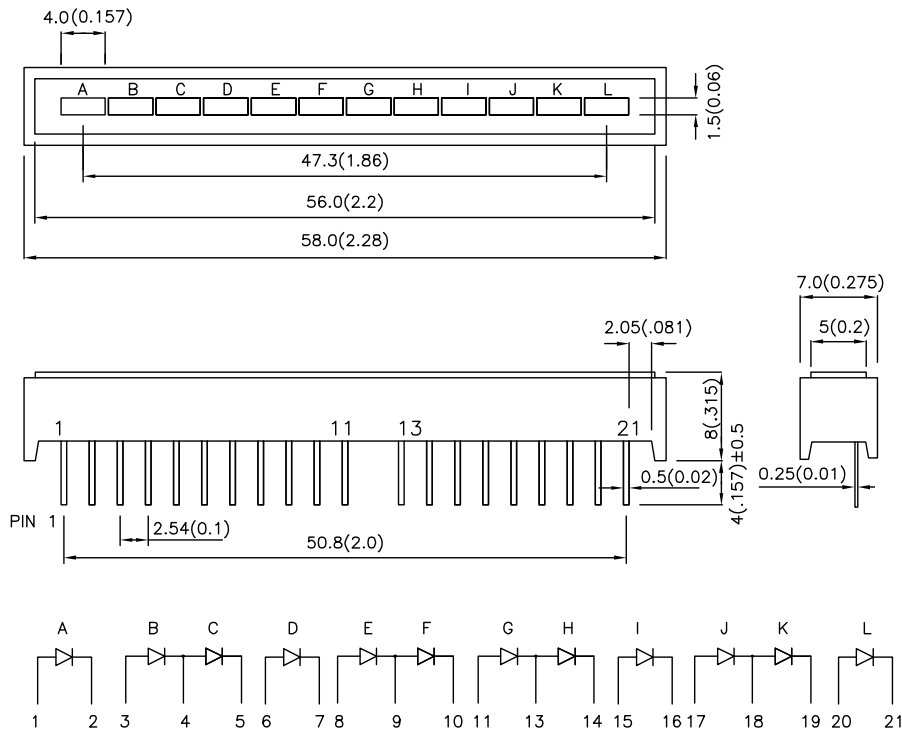
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

### Package Dimensions & Internal Circuit Diagram

BAR A~H: GREEN

BAR I~L: RED



12 NO PIN

#### 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.	
DD-8G4EWB	GREEN (GaP)	WHITE DIFFUSED	1200	5600	12 Segments Bargraph-Display 8x Green 4x High Efficiency Red
	HIGH EFFICIENCY RED (GaAsP/GaP)		3000	7700	

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

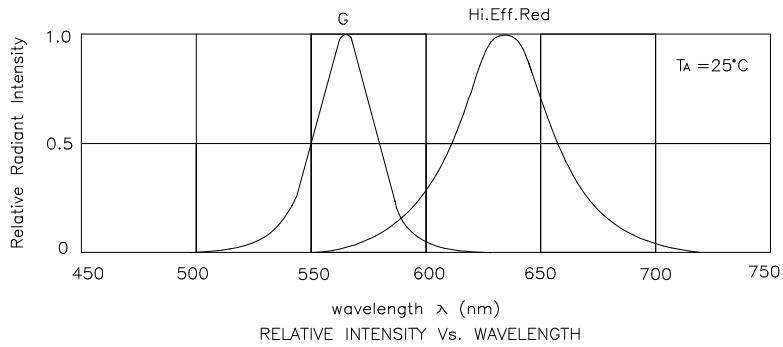
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Green High Efficiency Red	565 627		nm	IF=20mA
$\lambda_D$	Dominant Wavelength	Green High Efficiency Red	568 625		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Green High Efficiency Red	30 45		nm	IF=20mA
C	Capacitance	Green High Efficiency Red	15 15		pF	VF=0V;f=1MHz
VF	Forward Voltage (Per Segment)	Green High Efficiency Red	2.2 2.0	2.5 2.5	V	IF=20mA
IR	Reverse Current (Per Segment)	All		10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

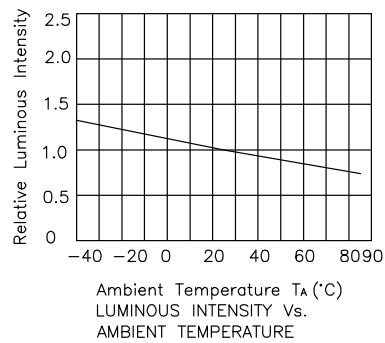
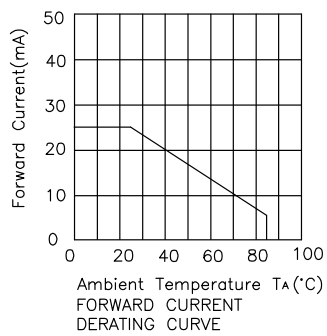
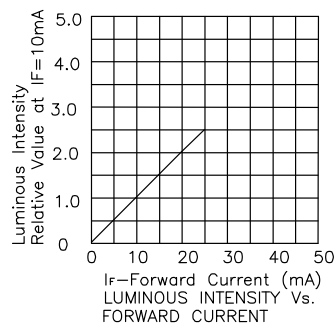
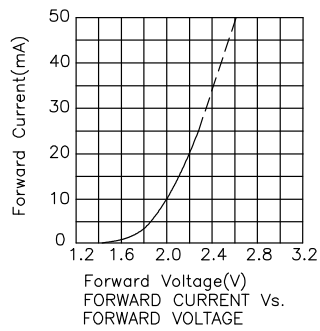
Parameter	Green	High Efficiency Red	Units
Power dissipation (Per Segment)	105	105	mW
DC Forward Current (Per Segment)	25	30	mA
Peak Forward Current [1] (Per Segment)	140	160	mA
Reverse Voltage (Per Segment)	5	5	V
Operating/storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 3 Seconds		

Notes:

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



**DD-8G4EWB**  
**Green**



## High Efficiency Red

