

Part Number: DC3G4Y3EWA

Green  
Yellow  
High Efficiency Red

### Features

- Suitable for level indicators.
- Low current operation.
- Excellent on/off contrast.
- End stackable.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

### Description

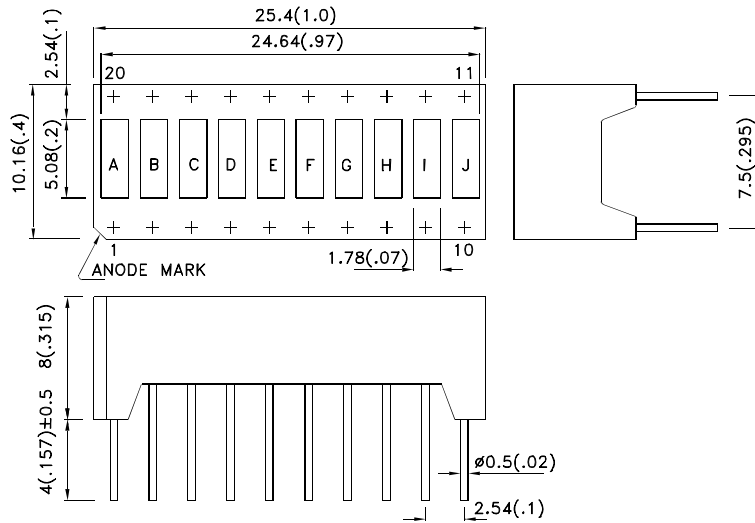
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

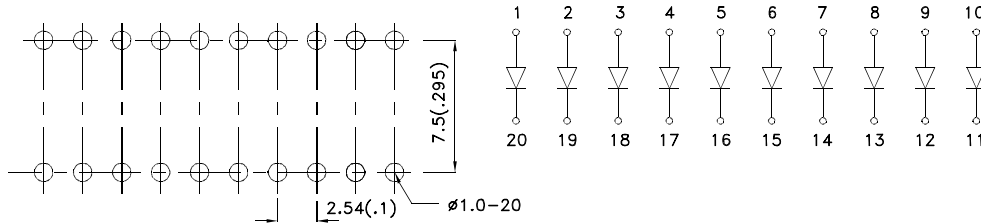
The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

### Package Dimensions & Internal Circuit Diagram

BAR A~C : GREEN(G)  
BAR D~G : YELLOW(Y)  
BAR H~J : RED(E)



RECOMMENDED PCB LAYOUT



**Notes:**

1. All dimensions are in millimeters (inches). Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
2. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



## Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
DC3G4Y3EWA	Green (GaP)	WHITE DIFFUSED	3000	16000	10 Segments Bargraph -Display 3 X Green 4 X Yellow 3 X High Efficiency Red
	Yellow (GaAsP/GaP)		1900	9000	
	High Efficiency Red (GaAsP/GaP)		1900	9000	

Note:

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

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

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Green Yellow High Efficiency Red	565 590 627		nm	I <sub>F</sub> =20mA
$\lambda_D$ [1]	Dominant Wavelength	Green Yellow High Efficiency Red	568 588 625		nm	I <sub>F</sub> =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Green Yellow High Efficiency Red	30 35 45		nm	I <sub>F</sub> =20mA
C	Capacitance	Green Yellow High Efficiency Red	15 20 15		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub> [2]	Forward Voltage	Green Yellow High Efficiency Red	2.2 2.1 2.0	2.5 2.5 2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Green Yellow High Efficiency Red		10 10 10	uA	V <sub>R</sub> =5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

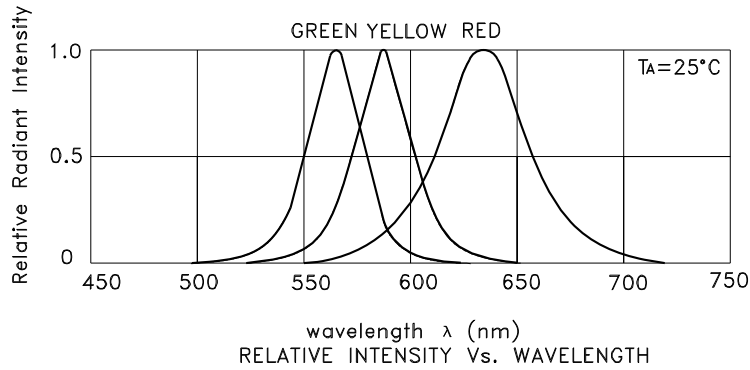
## Absolute Maximum Ratings at TA=25°C

Parameter	Green	Yellow	High Efficiency Red	Units
Power dissipation	62.5	75	75	mW
DC Forward Current	25	30	30	mA
Peak Forward Current [1]	140	140	160	mA
Reverse Voltage	5			V
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3-5 Seconds			

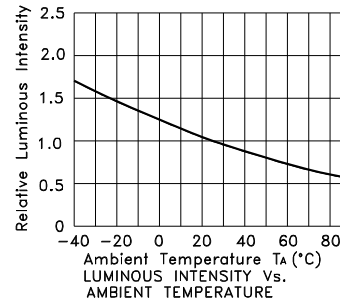
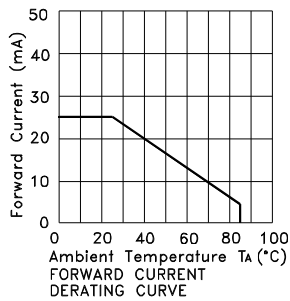
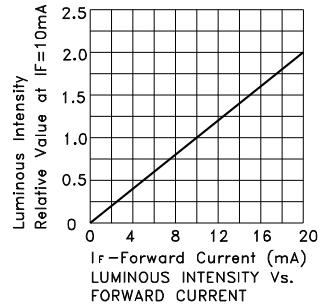
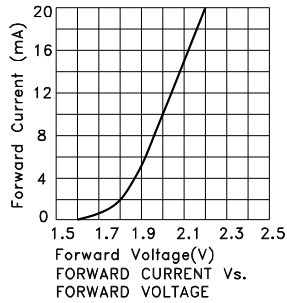
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

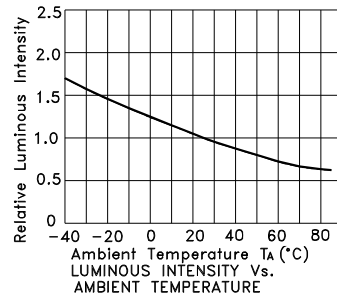
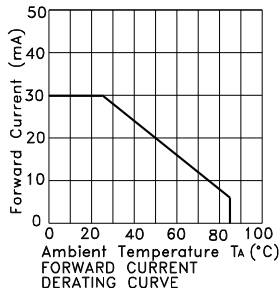
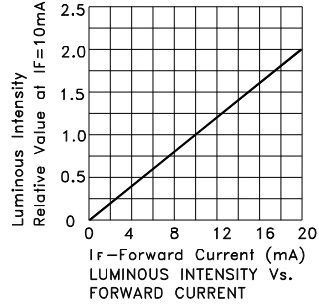
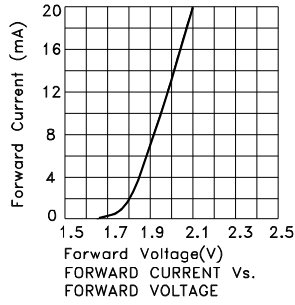


**DC3G4Y3EWA**  
**Green**

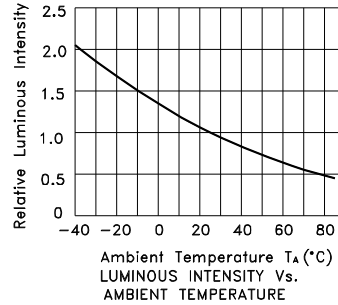
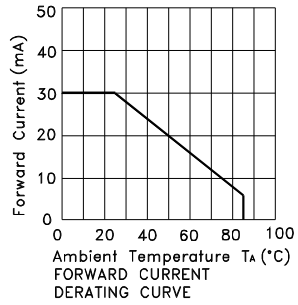
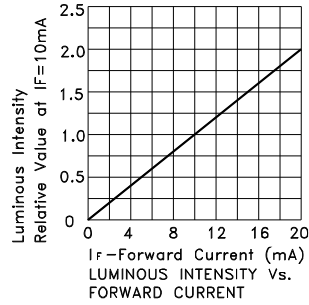
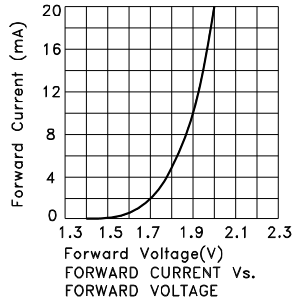


# Kingbright

## Yellow

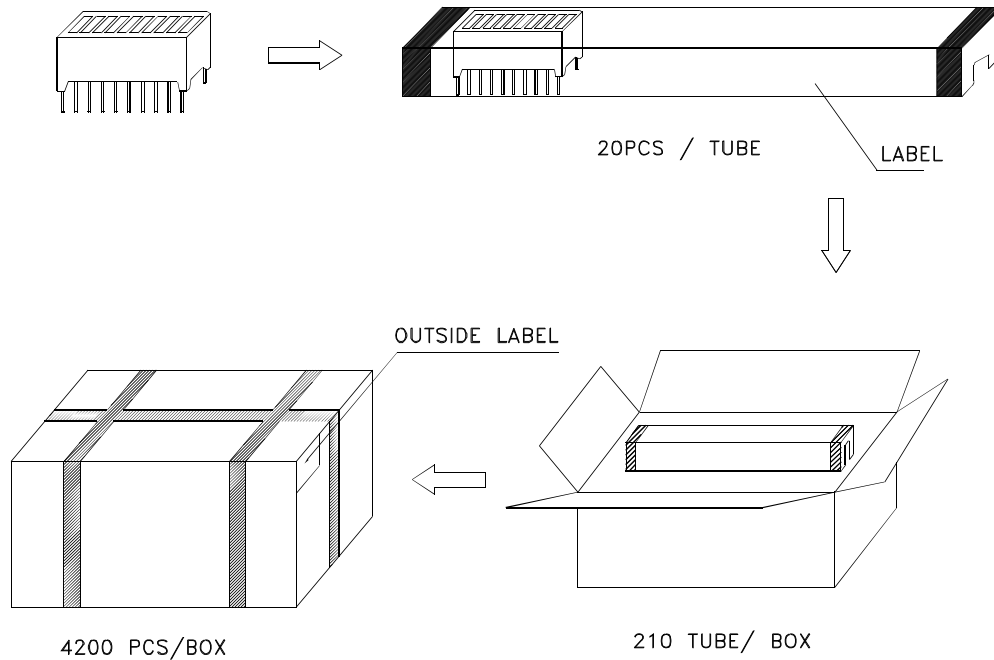


## High Efficiency Red

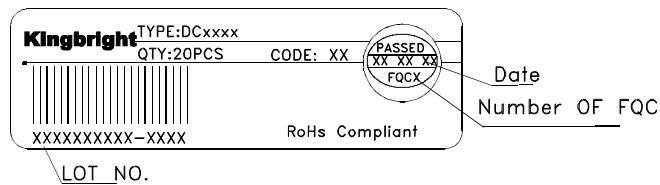


## PACKING & LABEL SPECIFICATIONS

## DC3G4Y3EWA



Inside Label Paste On The IC-tube



Outside Label Paste On The Box

