10 SEGMENT BAR GRAPH ARRAY

Part Number: DC-10EGWA

High Efficiency Red Green

Features

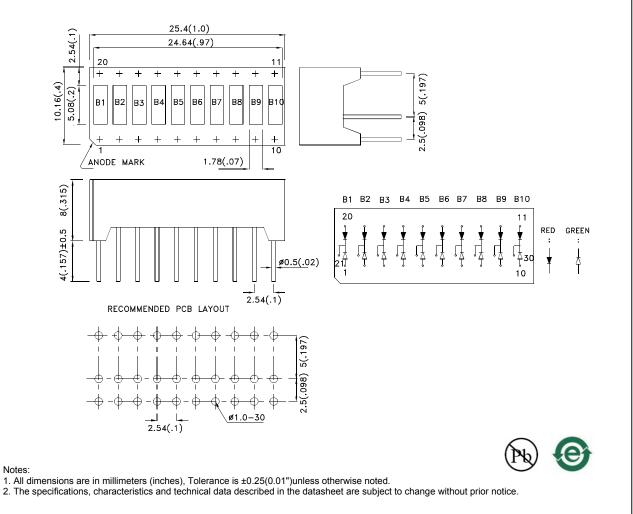
- Suitable for level indicators.
- Low current operation.
- Excellent on/off contrast.
- End stackable.
- Mechanically rugged.
- Standard : gray face, white segment.
- RoHS compliant.

Description

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

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

Package Dimensions & Internal Circuit Diagram



SPEC NO: DSAB0566 APPROVED: WYNEC

DATE: JAN/20/2012 DRAWN: F.ZHANG PAGE: 1 OF 7 ERP: 1331000006

Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description
			Min.	Тур.	
	High Efficiency Red (GaAsP/GaP)	White Diffused	3600	9000	10 Segments Bar graph-Display
DC-10EGWA			*900	*2000	
	Green (GaP)		5600	12000	
			*1400	*2800	

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
*Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Symbol	Parameter	Device	Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Green	627 565	*627 *565		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red Green	625 568	*617 *568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30			nm	IF=20mA
С	Capacitance	High Efficiency Red Green	1 1	-		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	High Efficiency Red Green	2 2.	-	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	High Efficiency Red Green			10 10	uA	VR = 5V

Electrical / Optical Characteristics at TA=25°C

Notes:

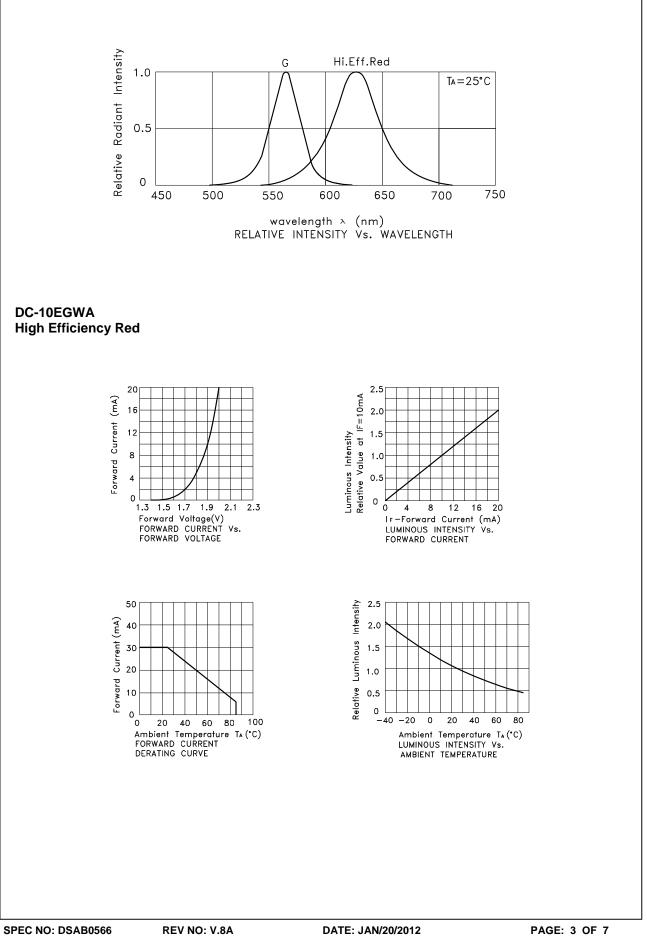
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. *Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

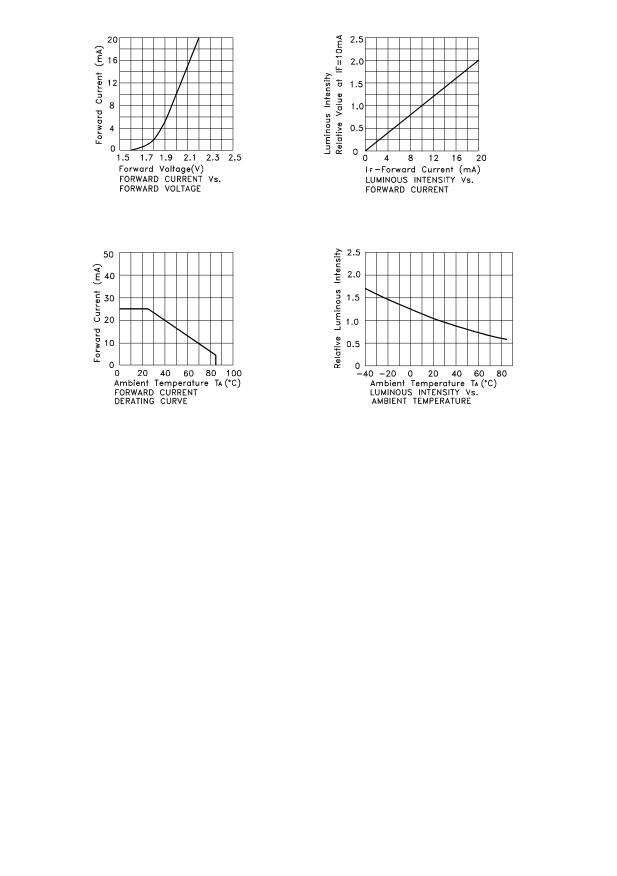
Parameter	High Efficiency Red	Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage	5	V			
Operating/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3-5 Seconds				

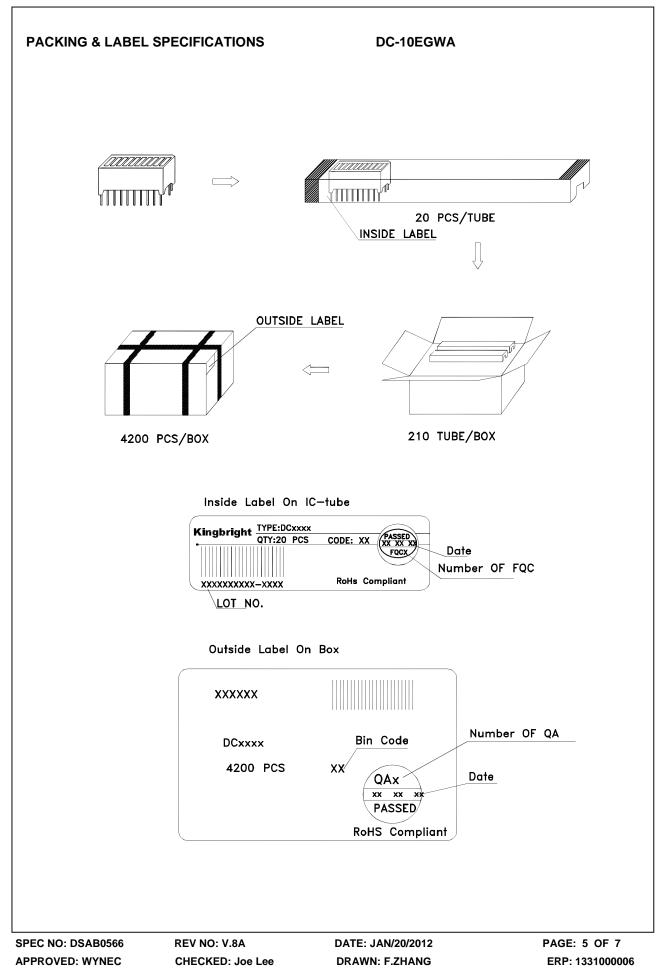
Notes:

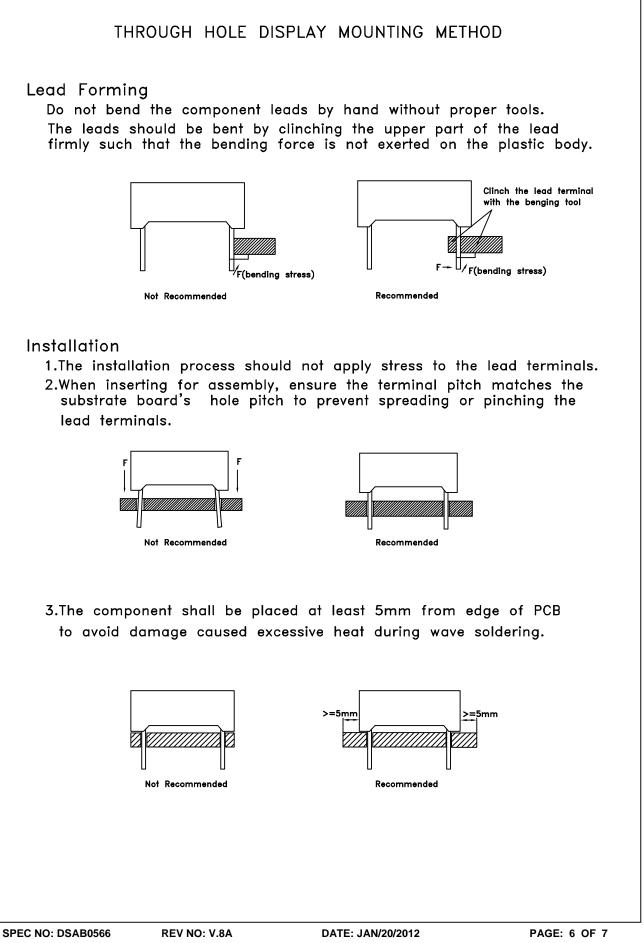
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.

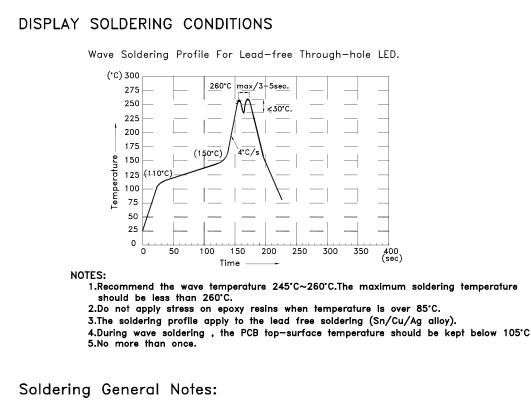


Green









- 1. Through-hole displays are incompatible with reflow soldering.
- 2. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Kingbright for compatibility.

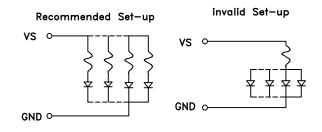
CLEANING

1.Mild "no-clean" fluxes are recommended for use in soldering.

2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning, because they may damage the plastic parts .And the devices should not be washed for more than one minute.

CIRCUIT DESIGN NOTES

1.Protective current-limiting resistors may be necessary to operate the Displays.2.LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.



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