7.5mmx14mm LIGHT BAR

Part Number: DE/2GD

Green

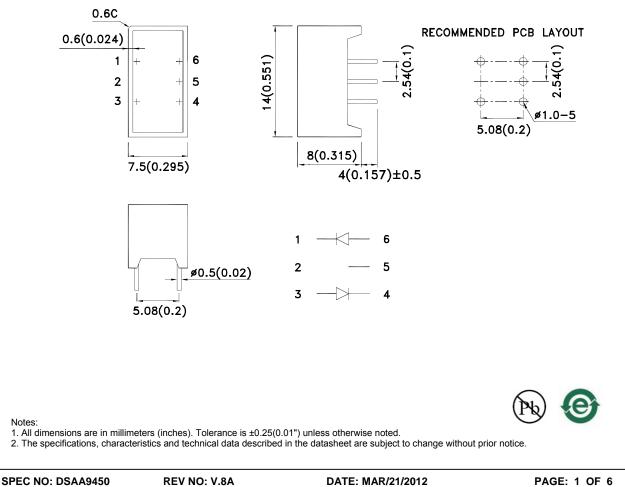
Features

- Uniform light emitting area.
- Easily mounted on P.C. boards or industry standard sockets.
- Flush mountable.
- Excellent on/off contrast.
- Can be used with panels and legend mounts.
- Mechanically rugged
- RoHS compliant.

Description

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

Package Dimensions& Internal Circuit Diagram



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Part No.	Dice Lens Type	Lens Type	lv (mcd) [1] @ 10mA	
			Min.	Тур.
DE/2GD	Green (GaP)	Green Diffused	14	30
		Green Dinused	*5.6	*11

Note:

Luminous intensity/ luminous Flux: +/-15%.
* Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green	568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	I⊧=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green	2.2	2.5	V	IF=20mA
IR	Reverse Current	Green		10	uA	VR=5V

Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

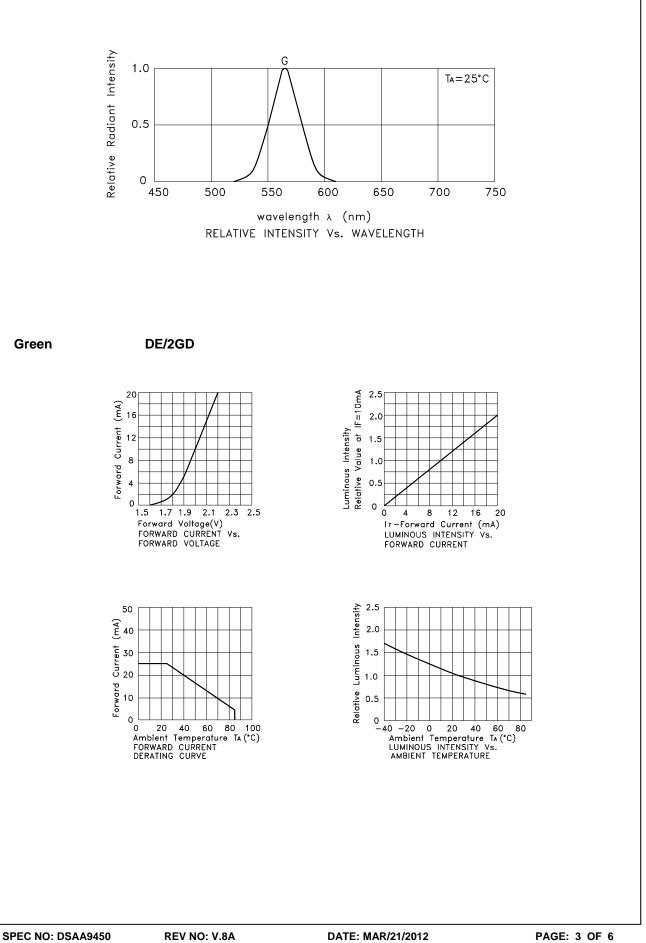
Absolute Maximum Ratings at TA=25°C

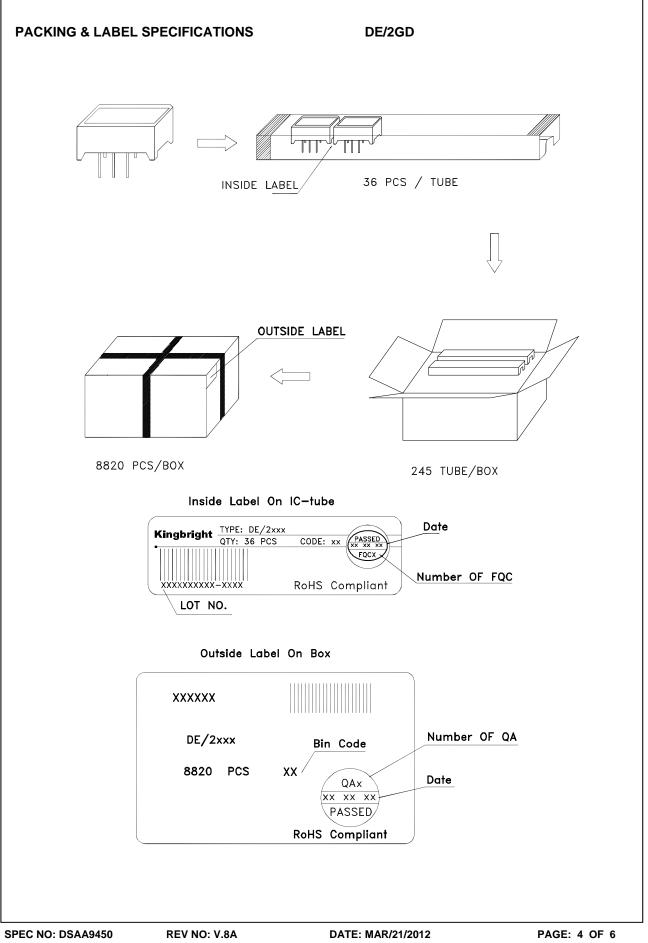
Parameter	Green	Units		
Power dissipation	62.5	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	e -40°C To +85°C			
Lead Solder Temperature[2]	260°C For 3-5 Seconds			

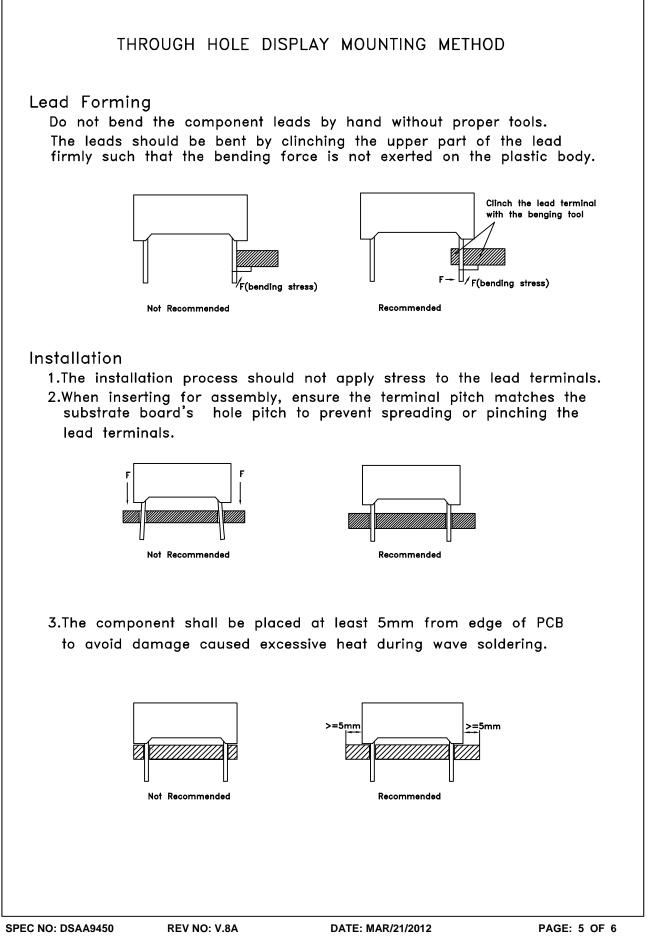
Notes:

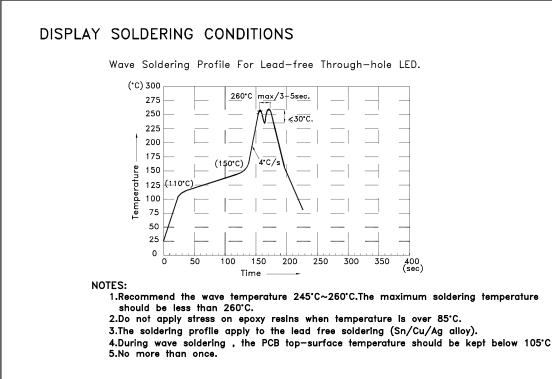
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.









Soldering General Notes:

- 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.

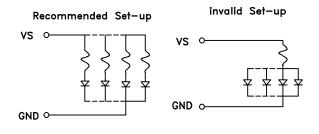
CLEANING

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

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



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