BAR GRAPH 5 SEGMENT

Part Number: DC-05GWA

Green

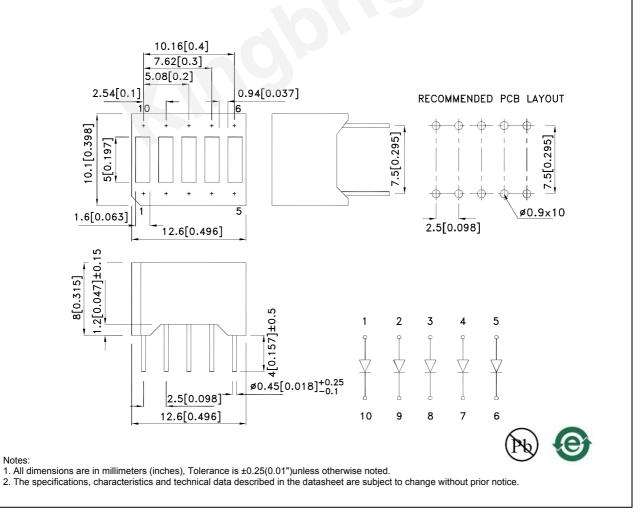
Features

- Suitable for level indicators.
- Low current operation.
- Excellent on/off contrast.
- End stackable.
- Mechanically rugged.
- Different colors in one unit available.
- Standard : gray 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



SPEC NO: DSAF3265 APPROVED: Wynec REV NO: V.7A CHECKED: Joe Lee DATE: JUL/04/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 6 ERP: 1331000365

Selection Guide									
Part No.	Emitting Color (Material)	Lens Type	lv (ucd) [1] @ 10mA		Description				
			Min.	Тур.					
DC-05GWA	Green (GaP)	White Diffused	5600	12000	5 Segment				
			*1400	*4000	Bar graph-Display				

Notes:

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

Electrical / Optical Characteristics at TA=25°C

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

Notes:

Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to CIE127-2007 standards.

4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

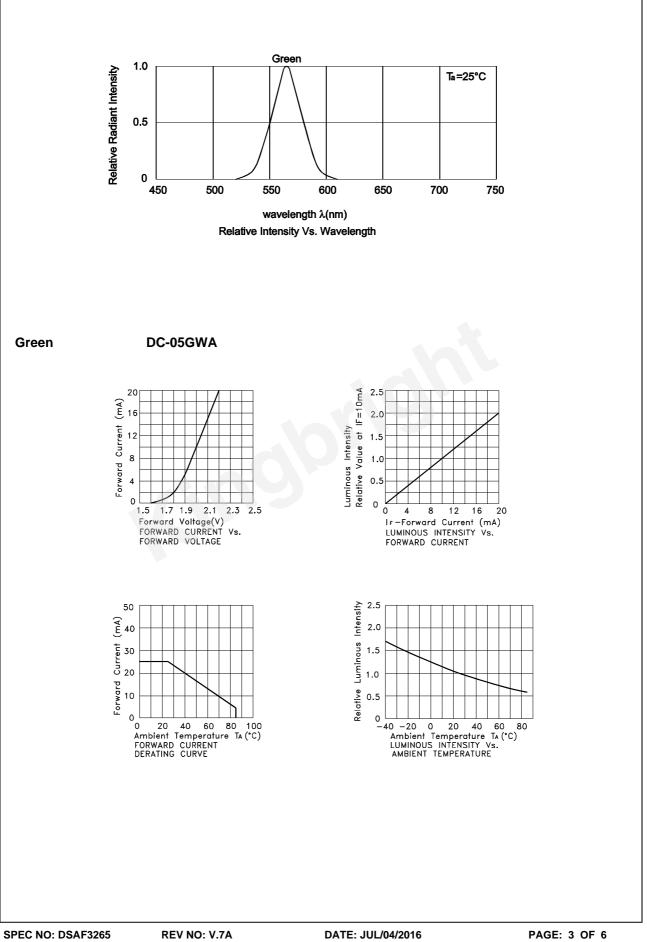
Absolute Maximum Ratings at TA=25°C

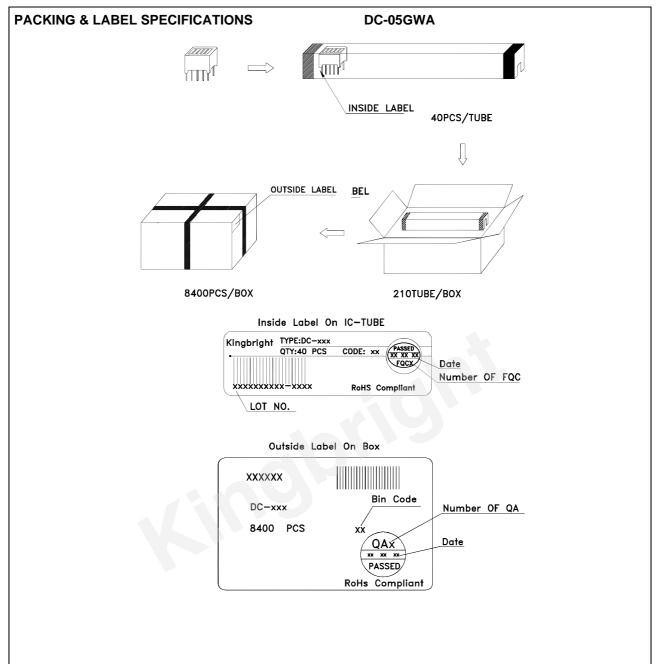
Parameter	Values	Units	
Power dissipation	62.5	mW	
DC Forward Current	25	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature[2]	260°C For 3-5 Seconds		

Notes:

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

 2. 2mm below package base.
3. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity - Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

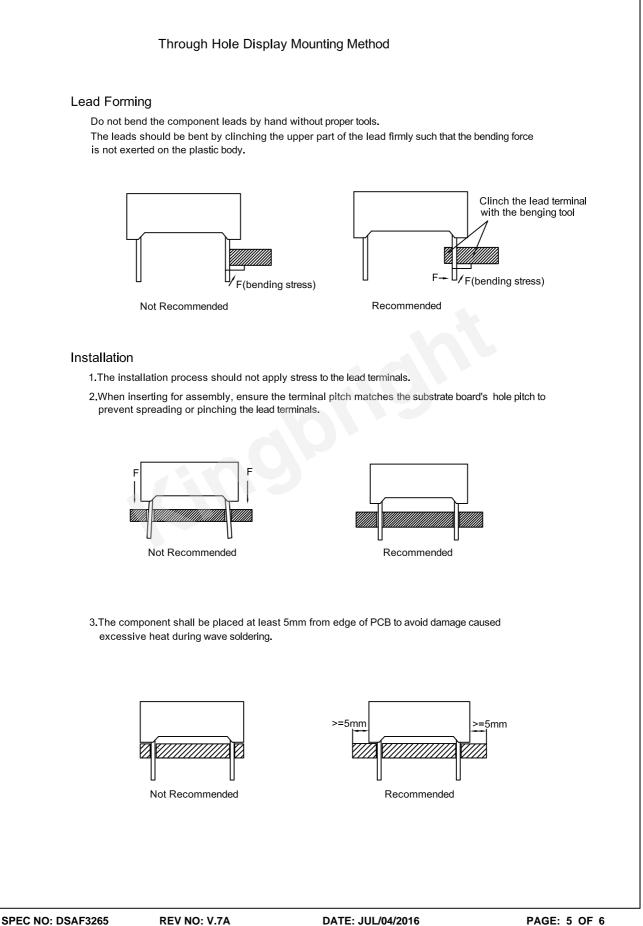




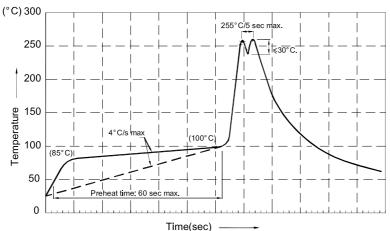
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DATE: JUL/04/2016 DRAWN: W.Q.Zhong



Recommended Wave Soldering Profiles:



Notes:

- 1.Recommend pre-heat temperature of 105° C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260° C
- 2.Peak wave soldering temperature between 245° C ~ 255° C for 3 sec (5 sec max).
- 3.Do not apply stress to the epoxy resin while the temperature is above 85°C.
- 4. Fixtures should not incur stress on the component when mounting and during soldering process.
- 5.SAC 305 solder alloy is recommended. 6.No more than one wave soldering pass.
- 7.During wave soldering, the PCB top-surface temperature should be kept below 105°C.

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

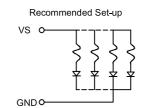
1.Mild "no-clean" fluxes are recommended for use in soldering.

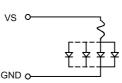
- 2.If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning because they may damage the plastic parts .
- 3. The cleaning process should take place at room temperature and the devices should not be washed for more than one minute.
- 4. When water is used in the cleaning process, immediately remove excess moisture from the component with forced-air drying afterwards.

Circuit Design Notes

1.Protective current-limiting resistors may be necessary to operate the LEDs within the specified range.

2.LEDs mounted in parallel should each be placed in series with its own current-limiting resistor.





Invalid Set-up

- 3. The driving circuit should be designed to protect the LED against reverse voltages and transient voltage spikes when the circuit is powered up or shut down.
- 4. The safe operating current should be chosen after considering the maximum ambient temperature of the operating environment.
- 5. Prolonged reverse bias should be avoided, as it could cause metal migration, leading to an increase in leakage current or causing a short circuit.

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