18mm (0.7 INCH) SINGLE COLOR DOT MATRIX DISPLAY

Part Number: TA07-11CGKWA

Green

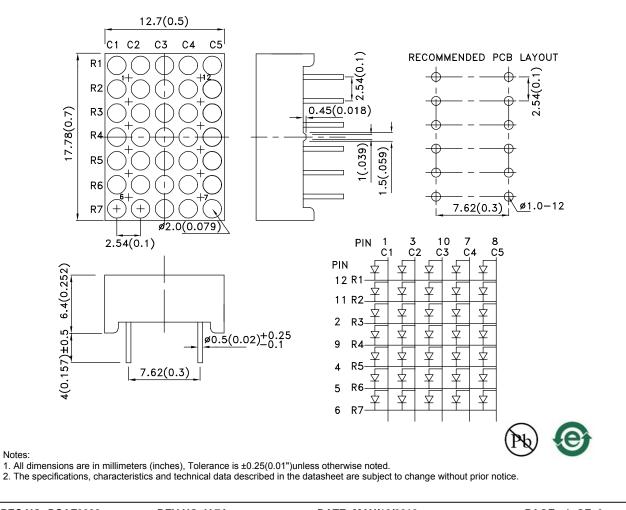
Features

- 0.7 inch matrix height.
- Dot size 2mm.
- Low current operation.
- Compatible with ASCII and EBCDIC codes.
- Stackable vertically and horizontally.
- Easy mounting on P.C. boards or sockets.
- Mechanically rugged.
- Standard: gray face, white dot.
- · RoHS compliant.

Description

The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

Package Dimensions& Internal Circuit Diagram



SPEC NO: DSAF0238 **APPROVED: WYNEC**

REV NO: V.7A CHECKED: Joe Lee DATE: MAY/16/2013 DRAWN: Q.M.CHEN

PAGE: 1 OF 6 ERP: 1332001445

	Selection Guide						
	Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description	
				Min.	Тур.	-	
	TA07-11CGKWA	Green (AlGaInP)	White Diffused	21000	38000	Column Anode	
				*5600	*12000		

Note: 1. 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	574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green	570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	20		nm	I⊧=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.1	2.5	V	I⊧=20mA
IR	Reverse Current	Green		10	uA	VR=5V

Notes:

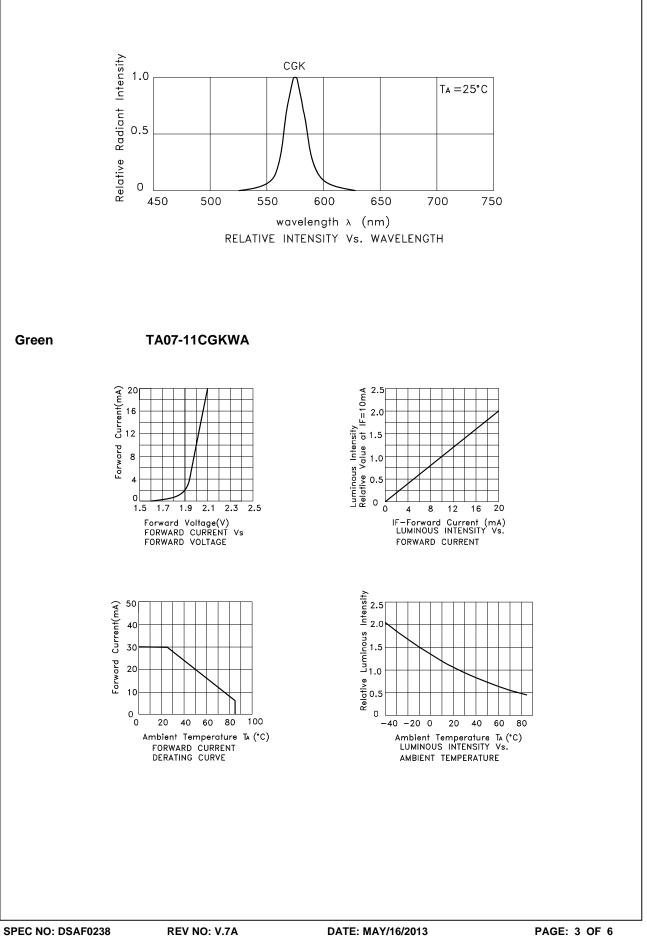
Wavelength: +/-1nm.
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

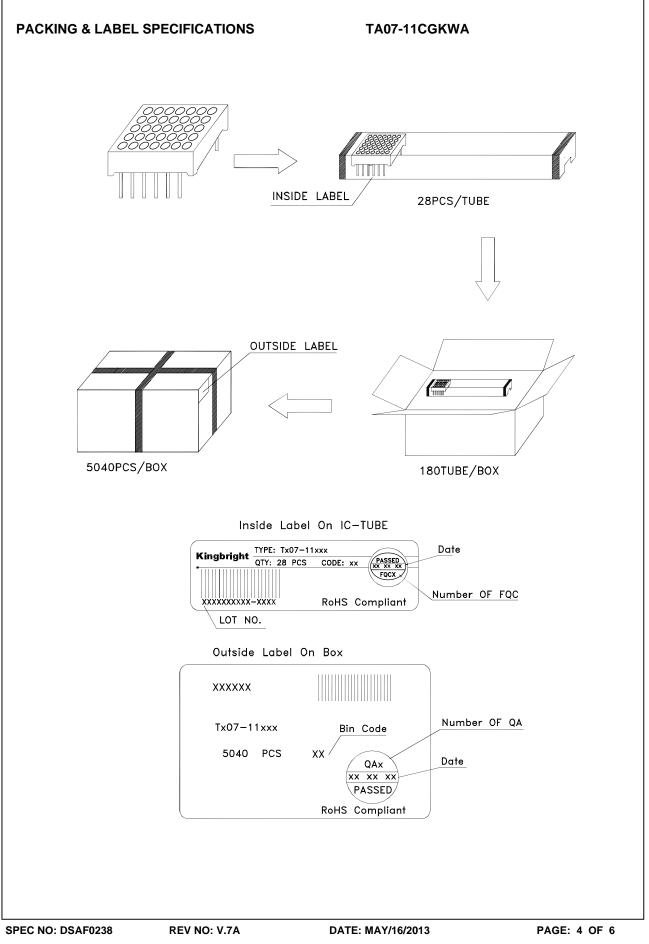
Absolute Maximum Ratings at TA=25°C

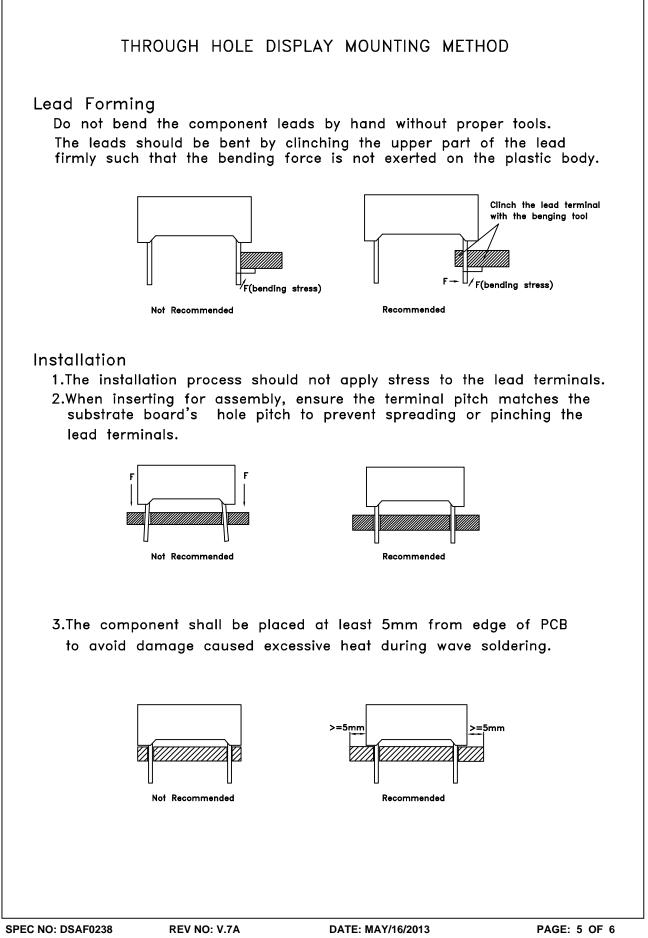
Parameter	Green	Units			
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature[2]	260°C For 3-5 Seconds				

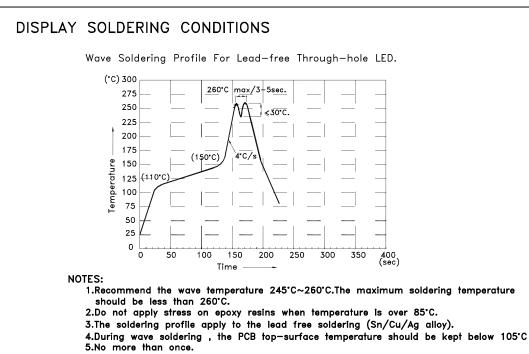
Notes:

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









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.

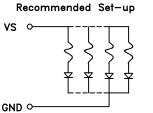
CLEANING

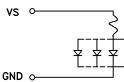
1.Mild "no-clean" fluxes are recommended for use in soldering.

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.





invalid Set-up

Detailed application notes are listed on our website. <u>http://www.kingbright.com/application_notes</u>

DATE: MAY/16/2013 DRAWN: Q.M.CHEN PAGE: 6 OF 6 ERP: 1332001445