imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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30.6mm (1.2 INCH) 5x7 DOT MATRIX DISPLAY

The Green source color devices are made with Gallium

Part Number: TA12-11GWA

Phosphide Green Light Emitting Diode.

Description

Green

Features

- 1.2 inch matrix height.
- Dot size 3mm.
- Low current operation.
- High contrast and light output.
- Column cathode and column anode available.
- Easy mounting on P.C. boards or sockets.
- Mechanically rugged.
- Standard : gray face, white dot.
- RoHS compliant.

22.9(.902) 8(.315) 4(.157)±0.5 4.6(.181)X4=18.4(.724) 0.4(.016) 8 4 RECOMMENDED PCB LAYOUT 4.6(.181)X6=27.6(1.087) 39(1.535) 53(1.299) 53(1.299) 02) ø0.5(. ø3(.118) __| |__ 2.54(.10) 01.0 - 141 7 2.5(.098) PIN 13 3 4,11 10 6 C1 C2 C3 C4 C5 PIN .059) N X R1 9 ¥ £ 14 R2 Ľ. × 8 12,5 R3 R4 2.54(.10) 1 7 R5 R6 2 R7

Package Dimensions& Internal Circuit Diagram

Notes:

1. All dimensions are in millimeters (inches), Tolerance is ±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.

DATE: APR/02/2011 DRAWN: J.Yu



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Selection Guide										
Part No.	Dice	Lens Type	lv (ucd) [1] @ 10mA		Description					
			Min.	Тур.						
TA12-11GWA	Green (GaP)	White Diffused	9000	16000	Column Anode					

Note:

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

Electrical / Optical Characteristics at TA=25°C

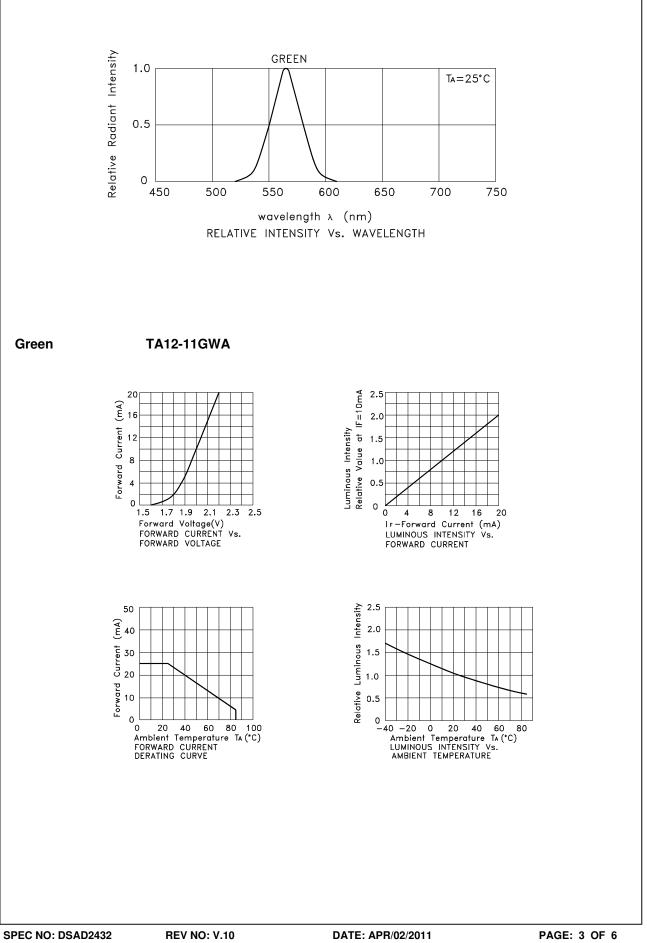
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	I⊧=20mA
С	Capacitance	Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	2.2	2.5	V	IF=20mA
lr	Reverse Current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

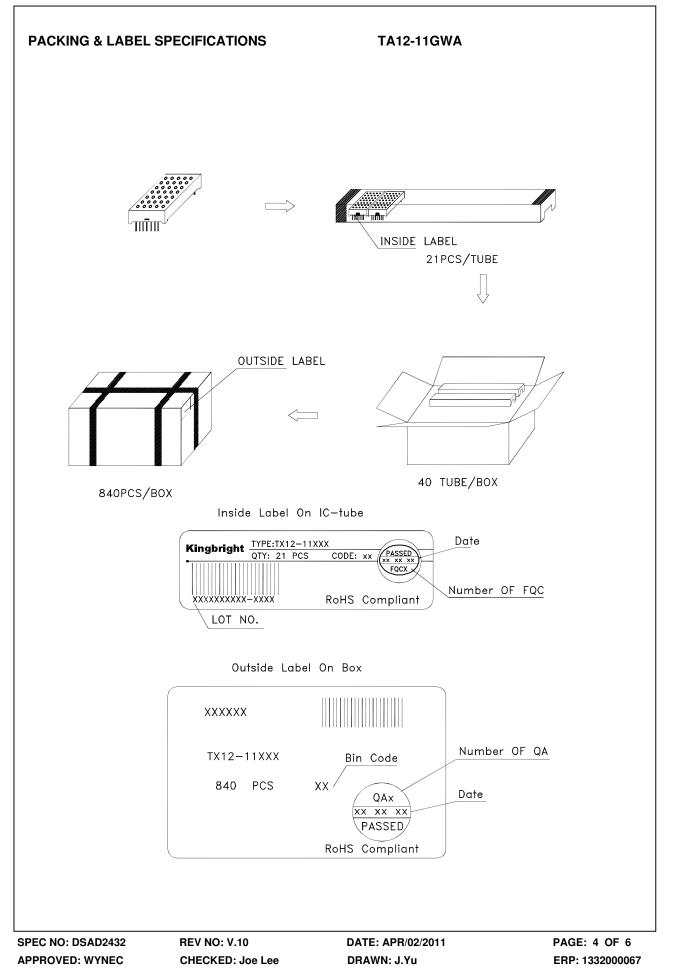
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

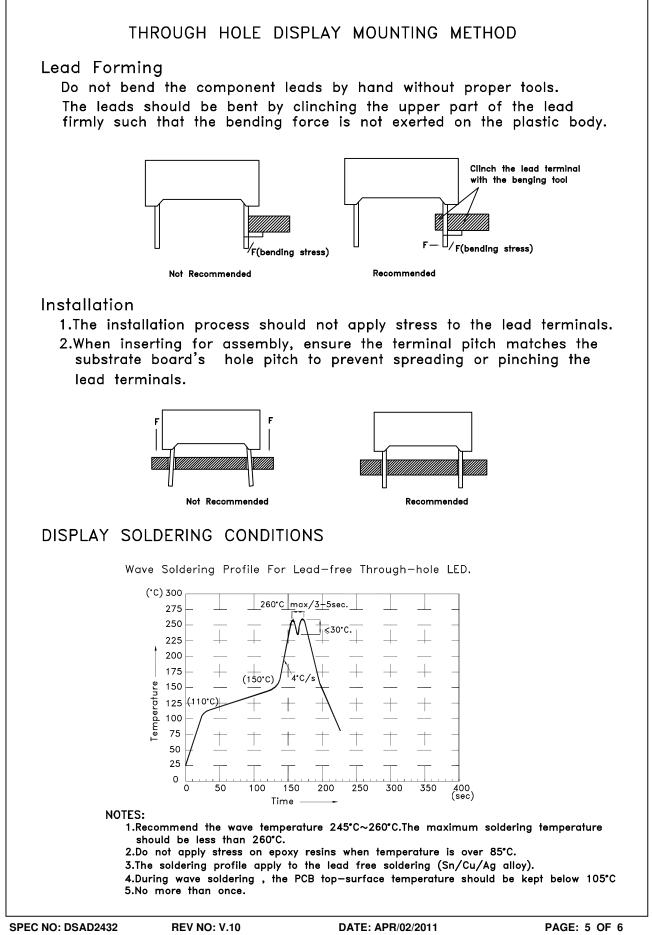
Absolute Maximum Ratings at TA=25°C

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	-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:

- a. Through-hole displays are incompatible with reflow soldering.
- b. 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.

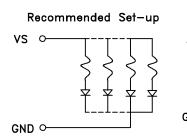
CLEANING

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

