

LD3622A/B Series - 0.36 inch Dual Digit 7 Segment LED Display



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

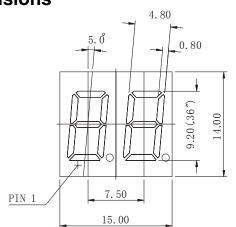
- 9.20 mm (0.36 inch) digit high
- Excellent digit appearance
- Wide viewing angle
- Range of emitted colors
- I.C. compatible
- Low power consumption
- White segment
- RoHS compliant

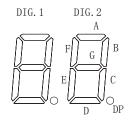
·Package Dimensions

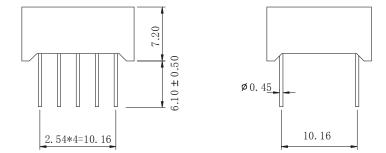


Available options

- Alternative emitting luminosity: Standard or high brightness version
- Alternative emitted color
- Alternative segment color
- Alternative font
- > Common Cathode is available
- Cropped terminal pins







Notes:

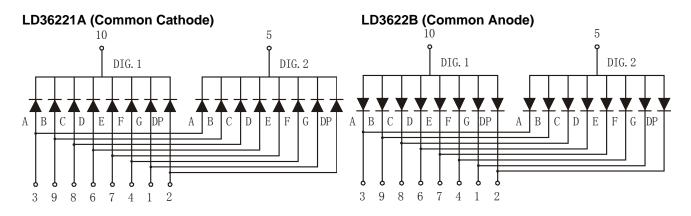
1. All dimensions are in millimeters (inches), Tolerance is ± 0.25mm(0.01inch)unless otherwise noted.

- 2. Specifications are subject to change without notice.
- 3. The gap between the reflector and PCB shall not exceed 0.25mm

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Internal Circuit Diagram



•Selection Guide (Ta = 25 °C)

Dual Digit 7 Segment LED Display, Digit Height: 9.20mm(0.36inch), External Dimensions: 15.00x14.00x7.20mm (L x W x H)												
Part No.		Chip			I _V @I _F =20mA		lv@IF=20mA					
Common	Common	Material	Color	WLD	One Seg		One DP					
Cathode	Anode	Waterial	COIOI	WLD	Min.	Тур.	Min.	Тур.				
LD3622AUR	LD3622BUR	AlGaInP	Ultra Red	640	30	45	30	45				
LD3622AUO	LD3622BUO	AlGaInP	Ultra Orange	625	45	60	45	60				
LD3622AUA	LD3622BUA	AlGaInP	Ultra Amber	605	30	45	30	45				
LD3622AUY	LD3622BUY	AlGaInP	Ultra Yellow	595	30	45	30	45				
LD3622AUG	LD3622BUG	AlGaInP	Ultra Green	573	30	45	30	45				
LD3622APG	LD3622BPG	InGaN	Pure Green	525	120	300	120	300				
LD3622AUB	LD3622BUB	InGaN	Ultra Blue	470	30	45	30	45				
LD3622AUW	LD3622BUW	InGaN	Ultra White	١	100	120	100	120				
Unit:	١	١	١	nm	mcd	mcd	mcd	mcd				

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•Electrical Characteristics & Absolute Maximum Ratings

Color		Elec	trical Chara	cteristics ^[1]	Absolute Maximum Ratings ^[1]			
		Forward Voltage@ IF=20mA		Reverse Current	Power Dissipation	DC Forward	Peak Forward	
		Тур.	Max.	VR=5V	Dissipation	Current	Current ^[2]	
Ultra Red	Per Seg.	1.9	2.6	30	60	20	100	
	Per DP	1.9	2.6	30	60	20	100	
Ultra	Per Seg.	2	2.6	30	65	20	100	
Orange	Per DP	2	2.6	30	65	20	100	
Ultra Amber	Per Seg.	2	2.6	30	65	20	100	
	Per DP	2	2.6	30	65	20	100	
Ultra Yellow	Per Seg.	2	2.6	30	65	20	100	
	Per DP	2	2.6	30	65	20	100	
Ultra Green	Per Seg.	2.1	2.6	30	75	20	100	
	Per DP	2.1	2.6	30	75	20	100	
Pure Green	Per Seg.	3.0	3.5	30	110	20	100	
	Per DP	3.0	3.5	30	110	20	100	
Ultra Blue	Per Seg.	3.0	3.5	30	120	20	100	
	Per DP	3.0	3.5	30	120	20	100	
Ultra White	Per Seg.	3.0	3.5	30	120	20	100	
	Per DP	3.0	3.5	30	120	20	100	
Unit:	١	V	V	uA	mW	mA	mA	

Notes:

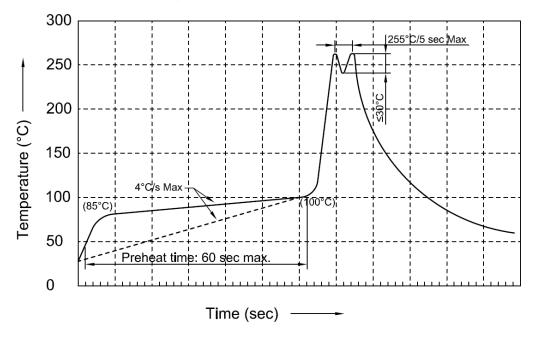
1. At Ta = 25 °C.

2. Peak forward current at 1/10 Duty Cycle, 0.1ms Pulse.

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·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 245-255 $^\circ\!\mathbb{C}$ for 3 sec (5 sec max).

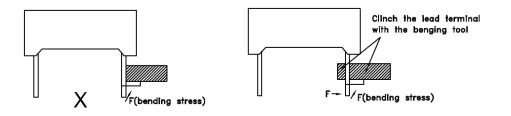
3.Do not apply stress to the epoxy resin while the temperature is above 85 $^\circ\!\mathbb{C}.$

4. Fixtures should not apply stress on the component when mounting and soldering process.

5. More than one wave soldering is not allowed.

Lead Forming

Bend the component leads by hand without proper tools is not allowed. The leads should be bent by clinching the upper part of the lead firmly such that the bending force is not exerted on the plastic body.



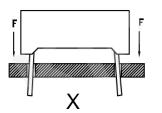
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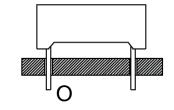
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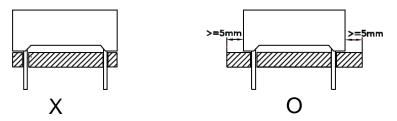
Installation

- 1. Do not apply stress to the lead terminals.
- 2. When inserting for assembly, ensure the terminal pitch matches the substrate board's hole pitch to prevent spreading or pinching the lead terminals.





The component shall be placed at least 5mm from edge of PCB to avoid damage caused excessive heat during wave soldering.



Storage

- The LEDs should be stored at temp.≤ 30°C &RH. ≤70% after being shipped from LITEKEY and the storage life limits are 3 months. If the LEDs are stored for 3 months or more, they can be stored for a year in a sealed container with a nitrogen atmosphere and absorbent material.
- 2. Please avoid rapid transitions in ambient temperature, especially in high humidity environments where condensation can occur.

Soldering General Notes

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

Cleaning

- 1. Mild "no-clean" fluxes are recommended for use in soldering.
- 2. If cleaning is required, LITEKEY recommends to wash components enclosure with water only. Do not use organic solvents for cleaning, because they may damage the plastic parts. And the devices should not be washed for more than one minute.



•Electrostatic Discharge(ESD)

- 1. LEDs can be damaged by electrostatic discharge or surge current (EOS).
- 2. An ESD wrist strap, ESD shoe strap or antistatic gloves must be worn whenever handling LEDs.
- 3. Grounded properly must be applied for all devices, equipment and machinery.
- 4. Use ion blower to neutralize the static charge which might have built up on surface of the LEDs plastic lens as a result of friction between LEDs during storage and handling.

·Other

- 1. Above specification may be changed without notice. LITEKEY will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. LITEKEY assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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