



Spec No.: DS30-2001-382 Effective Date: 03/07/2013

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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LED DISPLAY

LTD-5623AJG DATA SHEET

Rev	Description	Ву
-	Original Spec	Ruby Lee November 17, 2001
A	Add cosmetic Spec	Phanomkorn July 27, 2012

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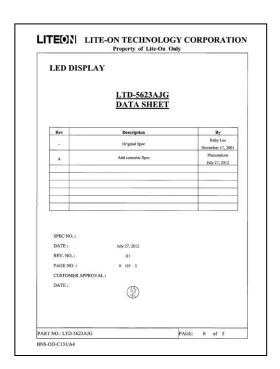
DATE: July 27, 2012

REV. NO.: 01

PAGE NO.: 0 OF 5

CUSTOMER APPROVAL:

DATE:



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FEATURES

- *0.56 inch (14.22 mm) DIGIT HEIGHT.
- *CONTINUOUS UNIFORM SEGMENTS.
- *LOW POWER REQUIREMENT.
- *EXCELLENT CHARACTERS APPEARANCE.
- *HIGH BRIGHTNESS & HIGH CONTRAST.
- *WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *CATEGORIZED FOR LUMINOUS INTENSITY.
- *LEAD-FREE PACKAGE(ACCORDING TO ROHS)

DESCRIPTION

The LTD-5623AJG is a 0.56 inch (14.22 mm) digit height dual digit seven-segment display. This device utilizes AlInGaP Green LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and green segments.

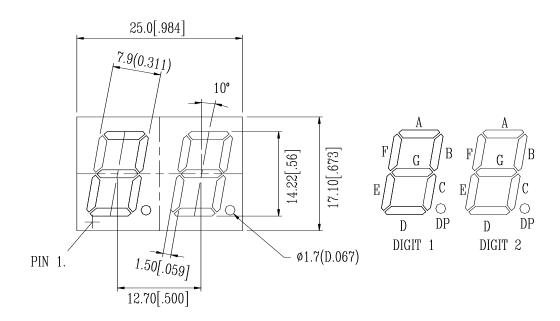
DEVICE

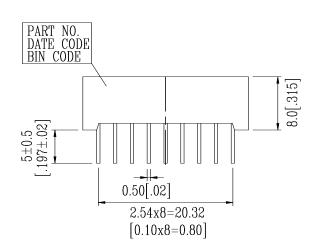
PART NO.	DESCRIPTION
AlInGaP Green	Common Cathode
LTD-5623AJG	Rt. Hand Decimal

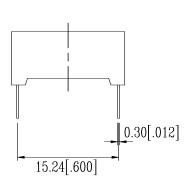
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PACKAGE DIMENSIONS







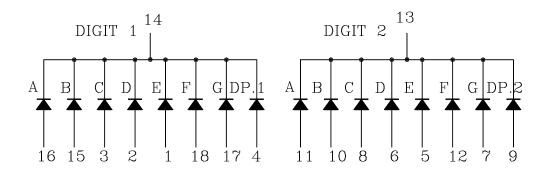
NOTES:

- 1. All dimensions are in millimeters. Tolerances are \pm 0.25 mm (0.01") unless otherwise noted.
- 2. Pin tip's shift tolerance is \pm 0.4 mm.
- 3. Recommend the best PCB hole: Ø1.0mm
- 4. Foreign material on segment ≤ 10mils
- 5. Ink contamination (surface) ≤ 20 mils
- 6. Bending ≤ 1/100
- 7. Bubble in segment ≤ 10 mils

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INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No	CONNECTION
1	ANODE E (DIGIT 1)
2	ANODE D (DIGIT 1)
3	ANODE C (DIGIT 1)
4	ANODE D.P. (DIGIT 1)
5	ANODE E (DIGIT 2)
6	ANODE D (DIGIT 2)
7	ANODE G (DIGIT 2)
8	ANODE C (DIGIT 2)
9	ANODE D.P. (DIGIT 2)
10	ANODE B (DIGIT 2)
11	ANODE A (DIGIT 2)
12	ANODE F (DIGIT 2)
13	COMMON CATHODE (DIGIT 2)
14	COMMON CATHODE (DIGIT 1)
15	ANODE B (DIGIT 1)
16	ANODE A (DIGIT 1)
17	ANODE G (DIGIT 1)
18	ANODE F (DIGIT 1)

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	70	mW			
Peak Forward Current Per Segment	60	mA			
(1/10 Duty Cycle, 0.1ms Pulse Width)					
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25°C Per Segment	0.28	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+105^{\circ}$ C				
Storage Temperature Range	-35°C to +105°C				

Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C

or of temperature unit (during assembly) not over max. temperature rating.

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	900		μcd	I _F =1mA
Peak Emission Wavelength	λр		571		nm	I _F =20mA
Spectral Line Half-Width	Δλ		15		nm	I _F =20mA
Dominant Wavelength	λd		572		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.05	2.6	V	I _F =20mA
Reverse Current Per Segment	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		I _F =1mA

NOTES:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.
- 2. Cross talk specification $\leq 2.5\%$
- 3. Reverse voltage is only for IR test. It cannot continue to operate at this situation.

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