



# LED Display Product Data Sheet LTC-4624JG

Spec No.: DS30-2004-303

Effective Date: 06/29/2010

Revision: B

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4

# **LITEON** LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

## **LED DISPLAY**

### **LTC-4624JG** **DATASHEET**

<b><u>Rev</u></b>	<b><u>Description</u></b>	<b><u>By</u></b>
<b>01</b>	<b>ORIGINAL</b>	<b>TH Chen</b> <b><u>11/27/2004</u></b>
<b>(Above data for PD and Customer tracking only)</b>		
<b>-</b>	<b>NPPR Received and Upload on OPNC</b>	<b>TH Chen</b> <b><u>11/27/2004</u></b>
<b>A</b>	<b>ADD Subcon TBK</b>	<b>CHUNCHUNLEE</b> <b>05/18/2010</b>
<b>B</b>	<b>Correct IV Min. from 320ucd to 200ucd</b> <b>TYP. from 750ucd to 464ucd</b>	<b><u>KITTISAK B.</u></b> <b><u>June 08/2010</u></b>

SPEC. NO.: DS30-2004-303

DATE : June 08/2010

REV. NO. : B

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PART NO.: LTC-4624JG

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# **LITEON** LITE-ON TECHNOLOGY CORPORATION

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## **FEATURES**

- \* 0.4inch (10.0mm) 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**

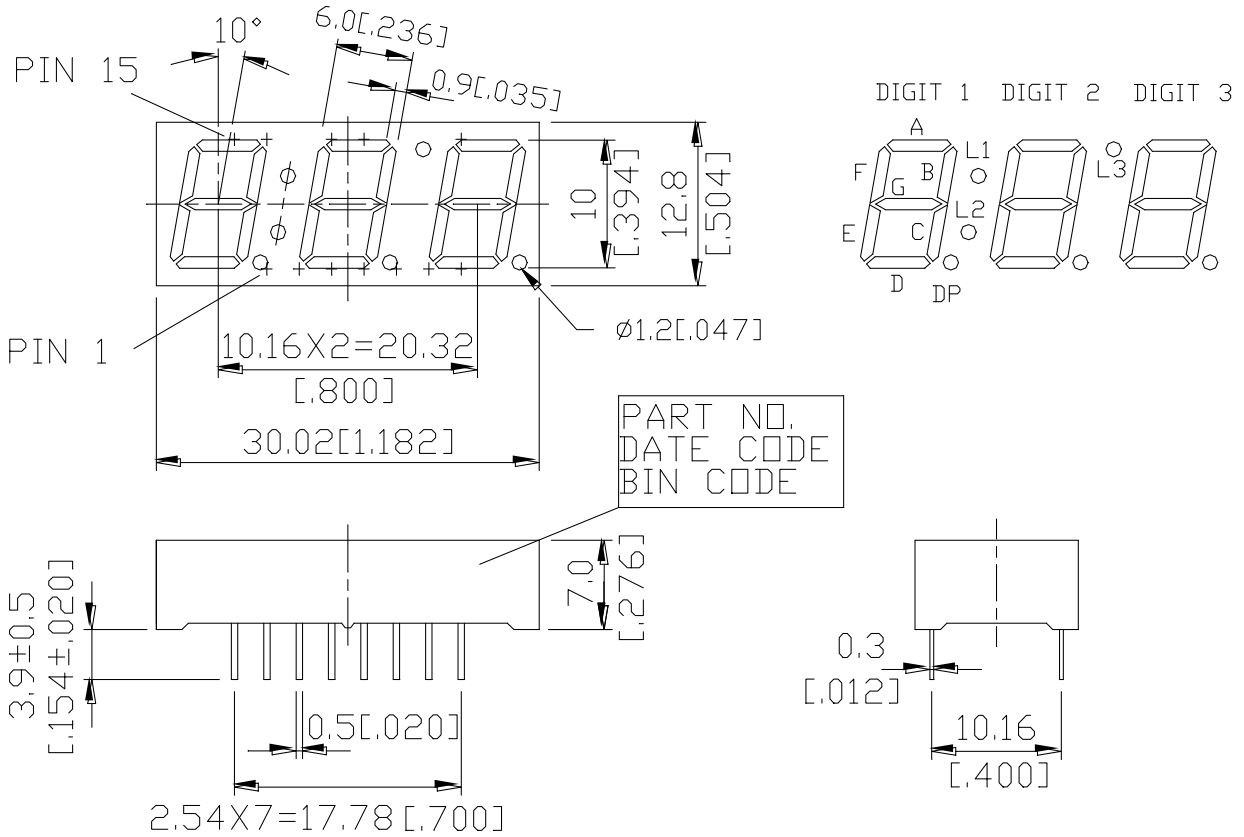
## **DESCRIPTION**

The LTC-4624JG is a 0.4 inch (10.0 mm) digit height triple digit seven-segment display. This device uses AllnGaP Green LED chips(AllnGaP epi on GaAs substrate) The display has gray face and white segments.

## **DEVICE**

<b>PART NO.</b>	<b>DESCRIPTION</b>
AllnGaP GREEN	Multiplex Common Anode
LTC-4624JG	Rt. Hand Decimal

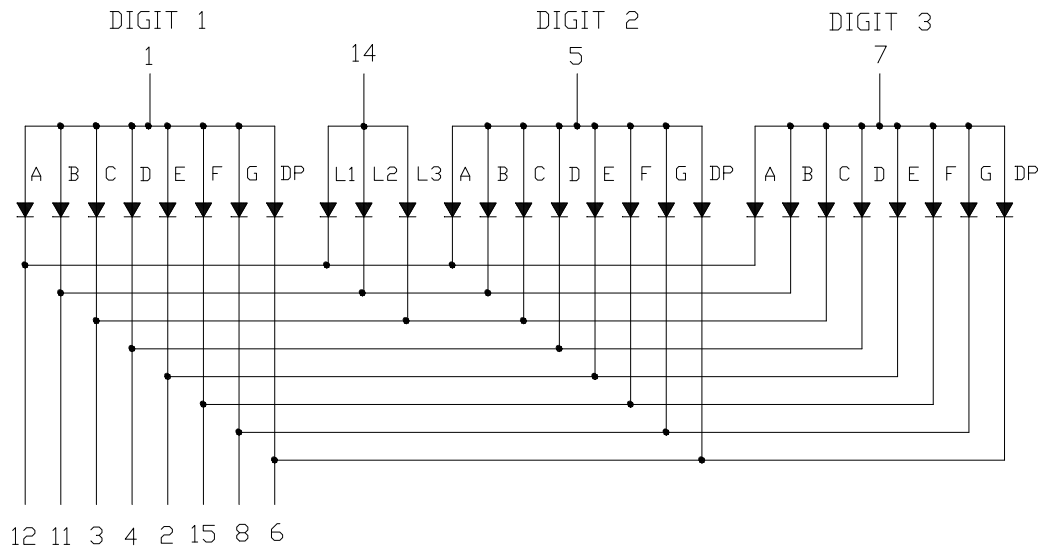
## PACKAGE DIMENSIONS



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. Foreign material on segment  $\leq 10$  mils
4. Ink contamination (surface)  $\leq 20$  mils
5. Bending  $\leq 1\%$  of reflector length
6. Bubble in segment  $\leq 10$  mils

## INTERNAL CIRCUIT DIAGRAM



**PIN CONNECTION**

<b>NO.</b>	<b>CONNECTION</b>
1	COMMON ANODE DIGIT 1
2	CATHODE E
3	CATHODE C,L3
4	CATHODE D
5	COMMON ANODE DIGIT 2
6	CATHODE DP
7	COMMON ANODE DIGIT 3
8	CATHODE G
9	NO PIN
10	NO PIN
11	CATHODE B,L2
12	CATHODE A,L1
13	NO PIN
14	COMMON ANODE L1,L2,L3
15	CATHODE F

**ABSOLUTE MAXIMUM RATING**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment ( Frequency 1Khz, 10% duty cycle)	60	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25 <sup>0</sup> C	0.28	mA/ <sup>0</sup> C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 <sup>0</sup> C to +105 <sup>0</sup> C	
Storage Temperature Range	-35 <sup>0</sup> C to +105 <sup>0</sup> C	
Soldering Conditions : 1/16 inch below seating plane for 5 seconds at 260 <sup>0</sup> C Or temperature of unit ( during assembly ) not over max. temperature rating above		

**ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25<sup>0</sup>C**

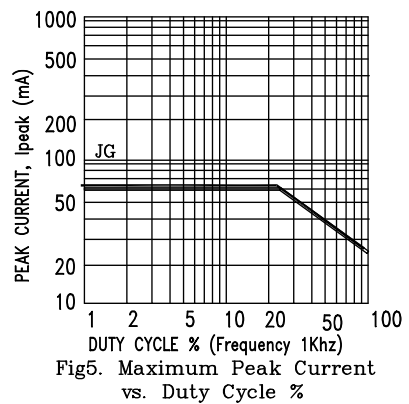
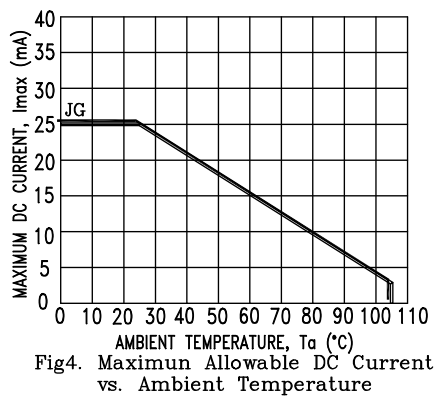
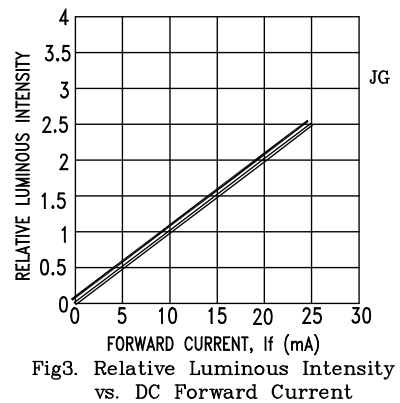
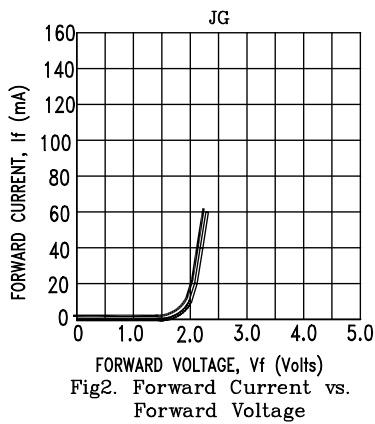
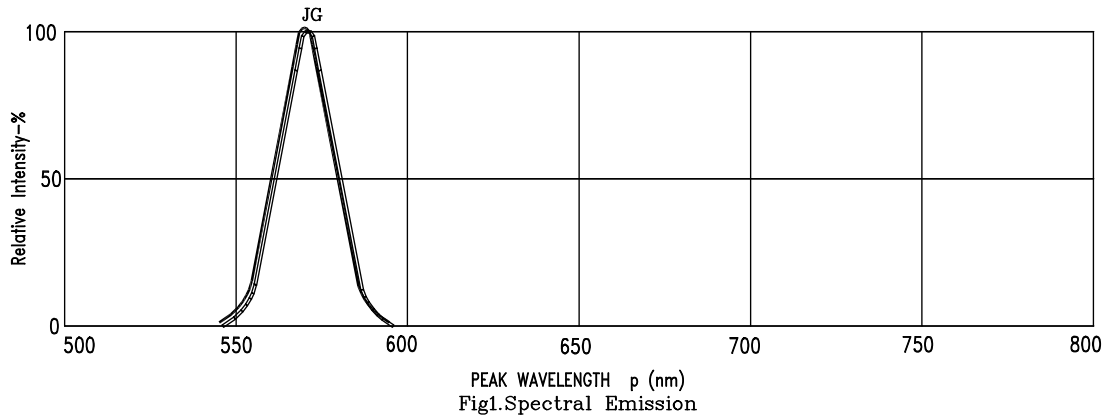
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I <sub>v</sub>	200	464		μcd	I <sub>F</sub> =1mA
Peak Emission Wavelength	λ <sub>p</sub>		571		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		15		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		572		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	V <sub>F</sub>		2.1	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	I <sub>v</sub> -m			2:1		I <sub>F</sub> =1mA

Note: 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 ≅ 2.5%

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JG=AlInGaP Green



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