



**Spec No.: DS-30-95-241**Effective Date: 01/16/2010

Revision: A

**LITE-ON DCC** 

**RELEASE** 

BNS-OD-FC001/A4

# **Property of Lite-On Only**

#### **FEATURES**

- \*0.4 inch (10 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.

### **DESCRIPTION**

The LTC-4625G is a 0.4 inch (10 mm) digit height quadruple digit seven-segment display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate, and has a gray face and white segments.

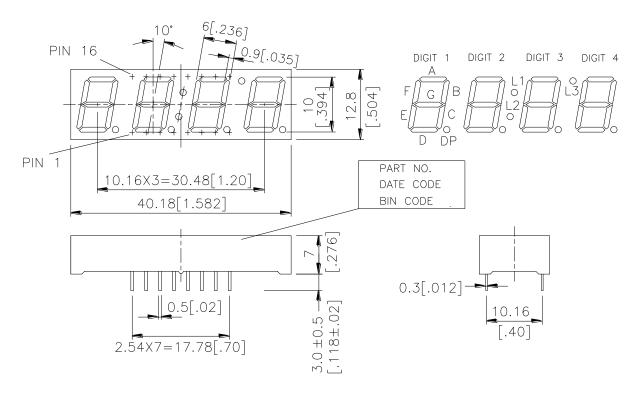
#### **DEVICE**

PART NO.	DESCRIPTION			
Green	Multiplex Common Anode			
LTC-4625G	Rt. Hand Decimal			

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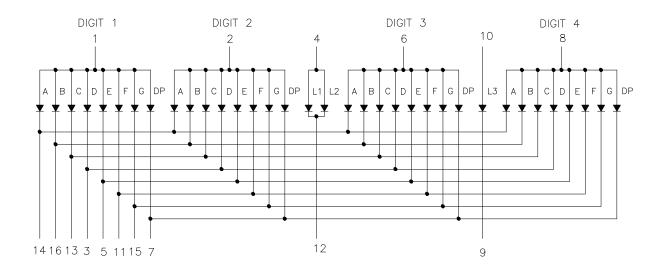
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## PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

### INTERNAL CIRCUIT DIAGRAM



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# PIN CONNECTION

No.	CONNECTION				
1	COMMON ANODE (DIGIT 1)				
2	COMMON ANODE (DIGIT 2)				
3	CATHODE D				
4	COMMON ANODE L1, L2				
5	CATHODE E				
6	COMMON ANODE (DIGIT 3)				
7	CATHODE DP				
8	COMMON ANODE (DIGIT 4)				
9	CATHODE L3				
10	ANODE L3				
11	CATHODE F				
12	CATHODE L1, L2				
13	CATHODE C				
14	CATHODE A				
15	CATHODE G				
16	CATHODE B				

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## ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	75	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25℃ Per Segment	0.33	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane.					

## ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

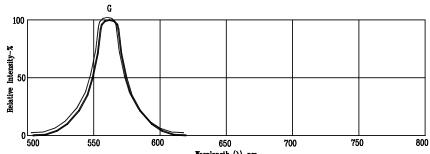
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λρ		565		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		30		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		569		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	$V_{\mathrm{F}}$		2.1	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I <sub>F</sub> =10mA

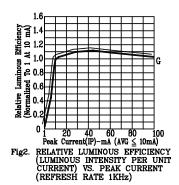
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

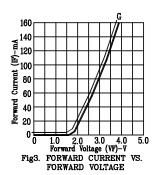
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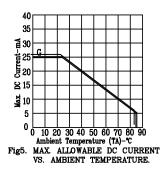
## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



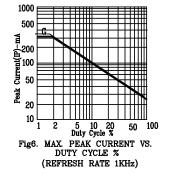






1 10 15 20 25 rward Current (IF)-mA

Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: G=GREEN

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