



Spec No.: DS30-2000-341Effective Date: 11/10/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.56INCH (14.22mm) 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

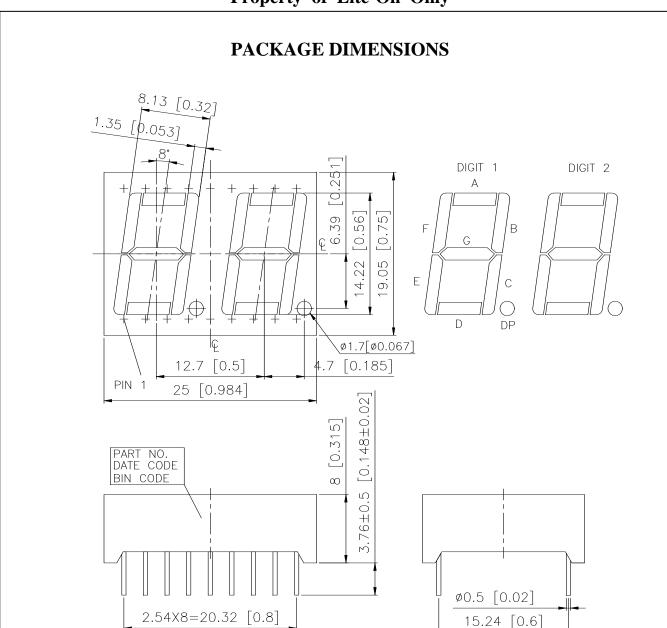
The LTD-6410G-03 is a 0.56inch (14.22mm) digit height dual digit seven-segment display. The device utilizes green LED chips, which are made from GaP on GaP substrate, and has a black face and white segments.

DEVICE

PART NO.	DESCRIPTION				
GREEN	COMMON ANODE				
LTD-6410G-03	RT. HAND DECIMAL				

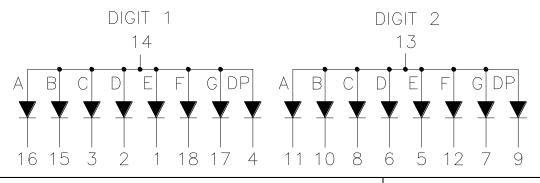
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NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25 mm unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Chip	75	mW			
Peak Forward Current Per Chip (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA			
Continuous Forward Current Per Chip	25	mA			
Derating Linear From 25°C Per Chip	0.33	mA/°C			
Reverse Voltage Per Chip	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					

TRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	870	2400		μcd	I _F =10mA
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Chip	V_{F}		2.1	2.6	V	I _F =20mA
Reverse Current Per Chip	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

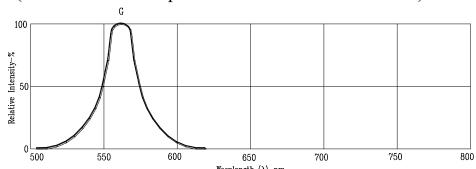
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



 $\label{eq:wavelength} \begin{tabular}{lll} Wavelength & $(\lambda)-nm$. \\ Fig1. RELATIVE INTENSITY VS. WAVELENGTH \\ \end{tabular}$

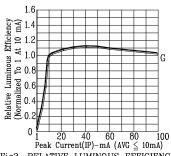
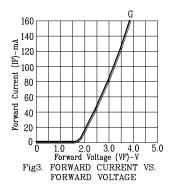


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)



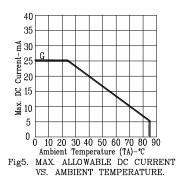
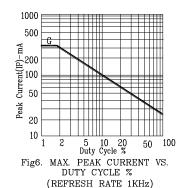


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



NOTE: G=GREEN

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