



Spec No.: DS-30-96-200 Effective Date: 01/29/2005

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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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
- *LEAD-FREE PACKAGE (ACCORDING TO ROHS)

DESCRIPTION

The LTD-6410AG is a 0.56 inch (14.22mm) digit height dual digit seven-segment display. The device uses green LED chips (GaP epi on GaP substrate). The display has gray face and white segments.

DEVICE

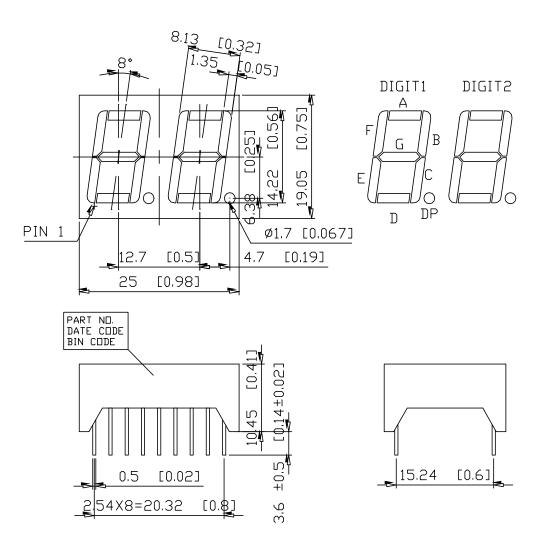
PART NO.	DESCRIPTION				
GREEN	COMMON ANODE				
LTD-6410AG	RT. HAND DECIMAL				

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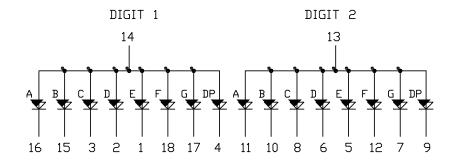
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PACKAGE DIMENSIONS



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

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Chip	75	mW			
Peak Forward Current Per Chip (Frequency 1Khz, 10% duty cycle)	100*	mA			
Continuous Forward Current Per Chip	25	mA			
Forward Current Derating from 25 ^o C	0.33	mA/°C			
Reverse Voltage Per Chip	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range -35°C to $+85^{\circ}\text{C}$					
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C					

^{*} see figure 5 to establish pulsed condition

TRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}C$

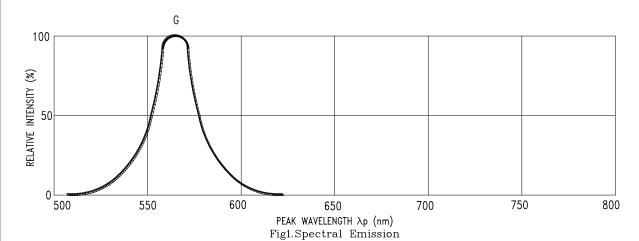
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	870	2400		μcd	I _F =10mA
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Chip	VF		2.1	2.6	V	I _F =20mA
Reverse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

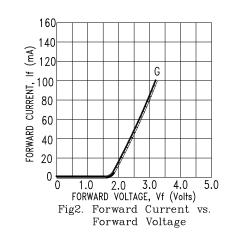
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

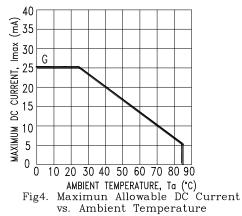
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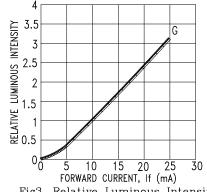
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

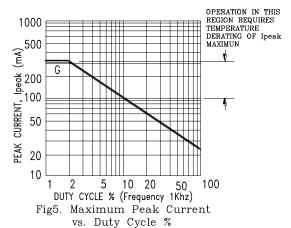








 $\begin{array}{cccc} Fig3. & Relative & Luminous & Intensity \\ & vs. & DC & Forward & Current \end{array}$



NOTE: G=GREEN.

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