



Spec No.: DS30-2002-278Effective Date: 12/11/2002

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.43 inch (11 mm) DIGIT HEIGHT
- *EXCELLENT SEGMENT UNIFORMITY
- ***LOW POWER REQUIREMENT**
- *HIGH BRIGHTNESS AND HIGH CONTRAST
- *WIDE VIEWING ANGLE
- *** SOLID STATE RELIABILITY**
- *BINNED FOR LUMINOUS INTENSITY

DESCRIPTION

The LTD-4813G-04J is a 0.43 inch (11 mm) digit height dual-digit display. This device uses GREEN LED chips (GaP epi on GaP substrate). The display has black face and green segments.

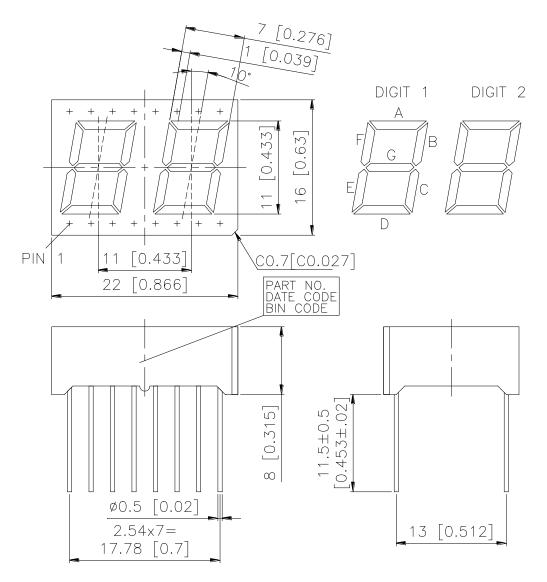
DEVICE

PART NO.	DESCRIPTION		
GREEN			
LTD-4813G-04J	Common Anode		

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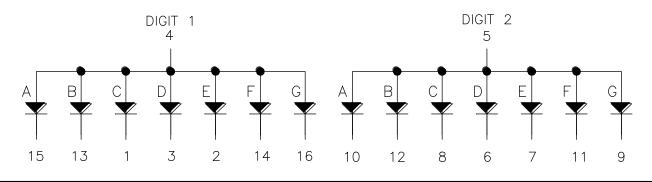
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION		
1	Cathode C (Digit 1)		
2	Cathode E (Digit 1)		
3	Cathode D (Digit 1)		
4	Common Anode (Digit 1)		
5	Common Anode (Digit 2)		
6	Cathode D (Digit 2)		
7	Cathode E (Digit 2)		
8	Cathode C (Digit 2)		
9	Cathode G (Digit 2)		
10	Cathode A (Digit 2)		
11	Cathode F (Digit 2)		
12	Cathode B (Digit 2)		
13	Cathode B (Digit 1)		
14	Cathode F (Digit 1)		
15	Cathode A (Digit 1)		
16	Cathode G (Digit 1)		

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ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT				
Power Dissipation Per Segment	75	mW				
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	100*	mA				
Continuous Forward Current Per Segment	25	mA				
Forward Current Derating from 25 ^o C	0.28	mA/ ⁰ C				
Reverse Voltage Per Segment	5	V				
Operating Temperature Range	-35° C to $+105^{\circ}$ C					
Storage Temperature Range	Range $-35^{\circ}\text{C to } +105^{\circ}\text{C}$					
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C						

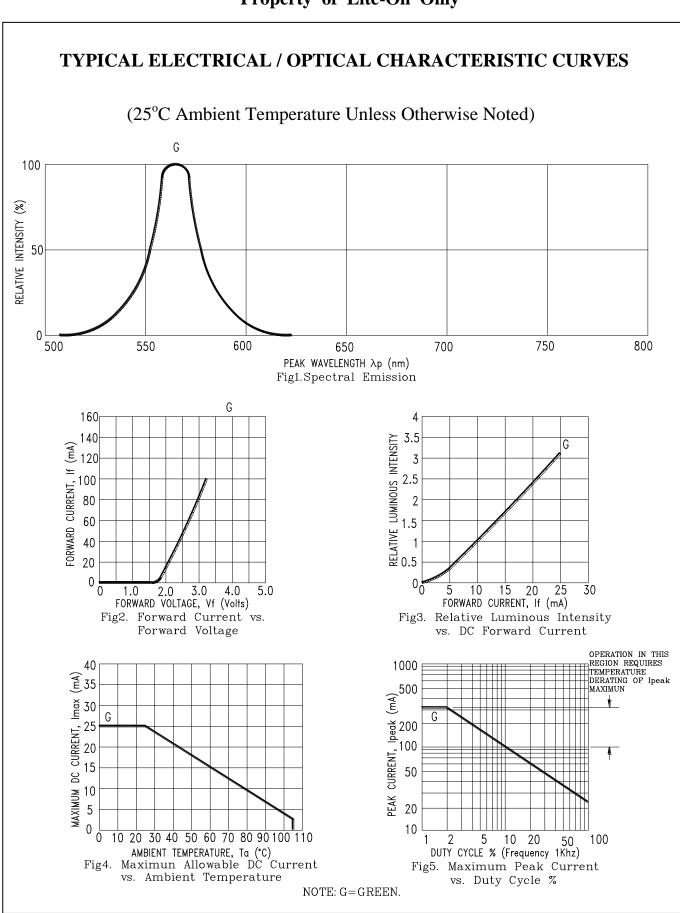
^{*} see figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	Iv	800	2200		μcd	$I_F = 10mA$
Peak Emission Wavelength	λр		565		nm	$I_F = 20mA$
Spectral Line Half-Width	Δλ		30		nm	$I_F = 20 \text{mA}$
Dominant Wavelength	λd		569		nm	$I_F = 20 \text{mA}$
Forward Voltage Per Segment	V_{F}		2.1	2.6	V	$I_F = 20mA$
Reverse Current Per Segment	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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