



Spec No.: DS30-2004-039 Effective Date: 01/09/2010

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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FEATURES

- *RECTANGULAR LIGHT BAR
- *LARGE, BRIGHT, UNIFORM LIGHT EMITTING AREAS
- *LOW POWER REQUIREMENT
- *HIGH BRIGHTNESS & HIGH CONTRAST
- *** SOLID STATE RELIABILITY**
- *CATEGORIZED FOR LUMINOUS INTENSITY

DESCRIPTION

The LTA-1000G-NB is a ten rectangular light sources array display designed for a variety of applications where a continuously large, bright source of light is required. This device uses Green LED chips (GaP epi on GaP substrate). The display has black face and white segments.

DEVICE

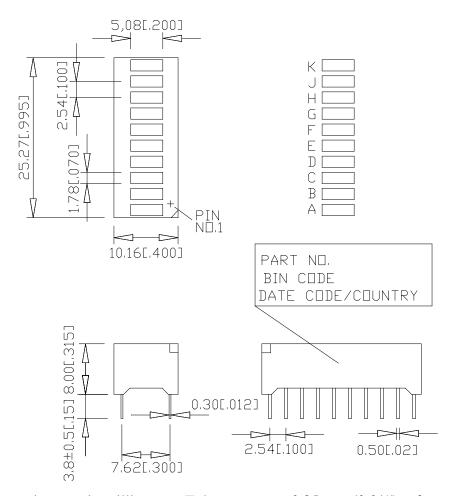
PART NO.	DESCRIPTION		
Green	Universal		
LTA-1000G-NB	Ten Rectangular Bar		

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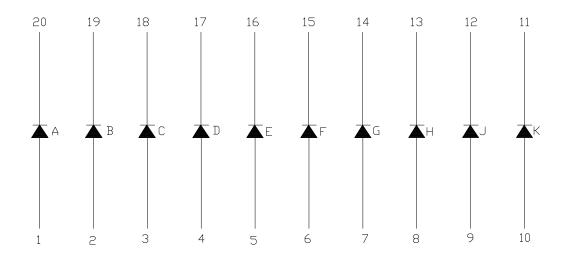
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PACKAGE DIMENSIONS



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	ANODE A
2	ANODE B
3	ANODE C
4	ANODE D
5	ANODE E
6	ANODE F
7	ANODE G
8	ANODE H
9	ANODE J
10	ANODE K
11	CATHODE K
12	CATHODE J
13	CATHODE H
14	CATHODE G
15	CATHODE F
16	CATHODE E
17	CATHODE D
18	CATHODE C
19	CATHODE B
20	CATHODE A

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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	0.33	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+85^{\circ}$ C				
Storage Temperature Range	-35°C to +85°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	Iv	540	2000		μcd	I _F =10mA
Peak Emission Wavelength	λр		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Segment	VF		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.

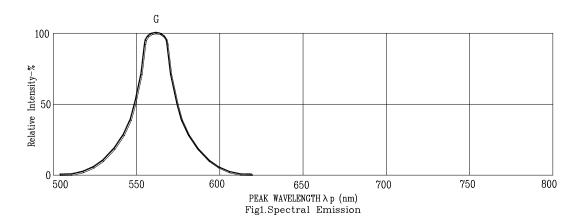
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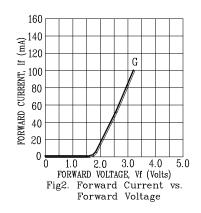
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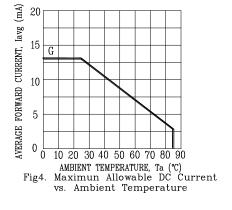
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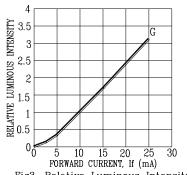
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

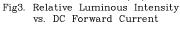
(25°C Ambient Temperature Unless Otherwise Noted)











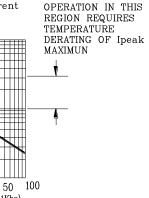
1000

(Yu) 500

002 jbg 100

PEAK CURRENT,

20 10



DUTY CYCLE % (Frequency 1Khz)
Fig5. Maximum Peak Current
vs. Duty Cycle %

10 20

5

NOTE: G=GREEN

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