



Spec No.: DS-30-97-335 Effective Date: 05/30/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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FEATURES

- *0.4 inch (10.0-mm) DIGIT HEIGHT.
- *CONTINUOUS UNIFORM SEGMENTS.
- *LOW POWER REQUIREMENTS.
- *EXCELLENT CHARACTERS AND APPEARANCE.
- *HIGH CONTRAST.
- *HIGH BRIGHTNESS.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *COMMON ANODE OR COMMON CATHODE MODELS.
- *CATEGORIZED FOR LUMINOUS INTENSITY.
- *EASY MOUNTING ON P.C. BOARD.

DESCRIPTION

The LTP-4823G is a is a 0.4 inch (10 mm) digit height dual 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

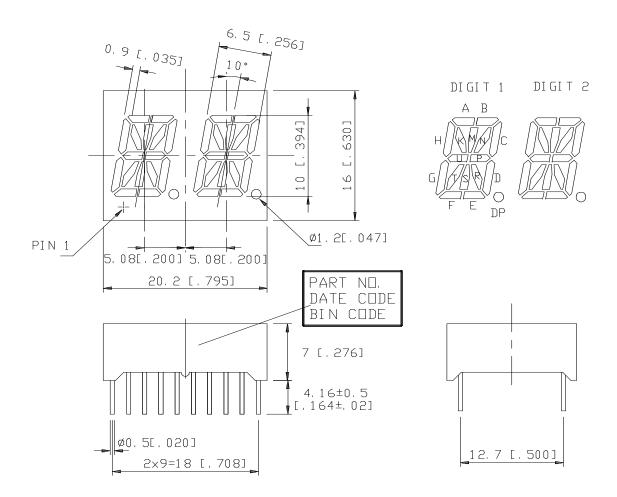
PART NO.	DESCRIPTION				
GREEN	DUPLEX COMMON ANODE				
LTP-4823G	RT. HAND DECIMAL				

PART NO.: LTP-4823G PAGE: 1 of 5

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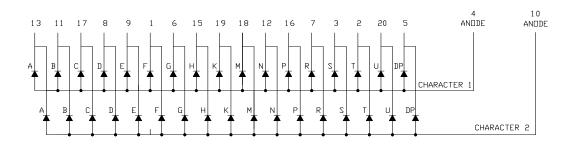
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PAGE: 2 of 5 PART NO.: LTP-4823G

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PIN CONNECTION

No.	CONNECTION					
1	CATHODE F					
2	CATHODE T					
3	CATHODE S					
4	COMMON ANODE CHARACTER 1					
5	CATHODE DP					
6	CATHODE G					
7	CATHODE R					
8	CATHODE D					
9	CATHODE E					
10	COMMON ANODE CHARACTER 2					
11	CATHODE B					
12	CATHODE N					
13	CATHODE A					
14	NO CONNECTION					
15	CATHODE H					
16	CATHODE P					
17	CATHODE C					
18	CATHODE M					
19	CATHODE K					
20	CATHODE U					

3 of 5 PART NO.: LTP-4823G PAGE:



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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING				
Average Power Dissipation Per Segment	75	mW			
Peak Forward Current Per Segment	100	mA			
Average Forward Current Per Segment	25	mA			
Derating Linear From 25°C 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 $+85^{\circ}\text{C}$					
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

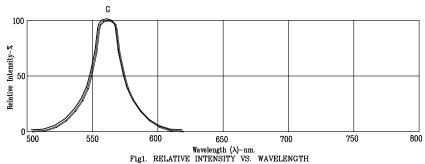
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I _p =10mA
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

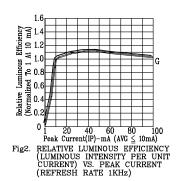
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

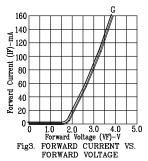
PART NO.: LTP-4823G PAGE: 4 of 5

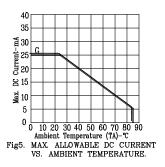
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

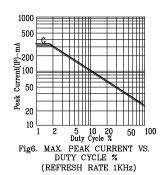








Forward Current (IP)-mA
Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: G=GREEN

PAGE: PART NO.: LTP-4823G 5 of 5