



Spec No.: DS-30-97-276Effective Date: 03/20/2009

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

FEATURES

- *0.3 inch (7.62-mm) 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 LTS-312AG is a 0.3-inch (7.62-mm) digit height single 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.

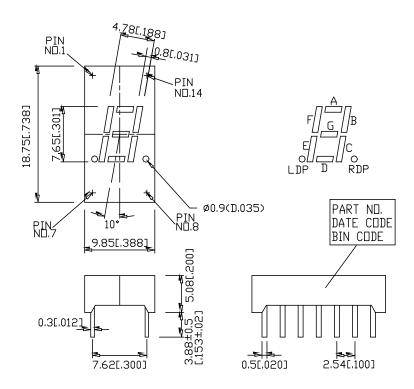
DEVICE

PART NO.	DESCRIPTION
GREEN	CONTROL ANODE
LTS-312AG	COMMON ANODE

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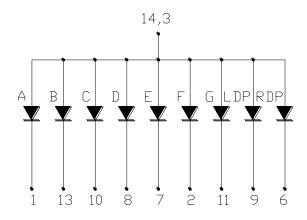
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION
1	CATHODE A
2	CATHODE F
3	COMMON ANODE
4	NO PIN
5	NO PIN
6	CATHODE LDP.
7	CATHODE E
8	CATHODE D
9	CATHODE RDP.
10	CATHODE C
11	CATHODE G
12	NO PIN
13	CATHODE B
14	COMMON ANODE

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	75	mW		
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA		
Continuous Forward Current Per Segment	25	mA		
Derating Linear From 25 ^o C Per Segment	0.33	mA/ ⁰ C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35° C to $+85^{\circ}$ C			
Storage Temperature Range	-35° C to $+85^{\circ}$ 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	2000		μcd	I=10mA
Peak Emission Wavelength	λρ		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	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

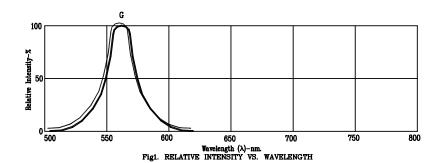
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

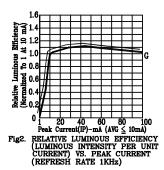
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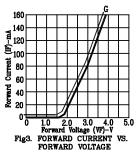
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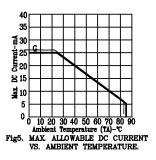
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

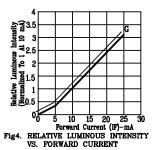
(25°C Ambient Temperature Unless Otherwise Noted)

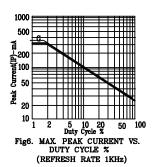












NOTE: G=GREEN

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