



Spec No.: DS-30-97-287 Effective Date: 04/26/2000 Revision: -



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

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-313AG 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.

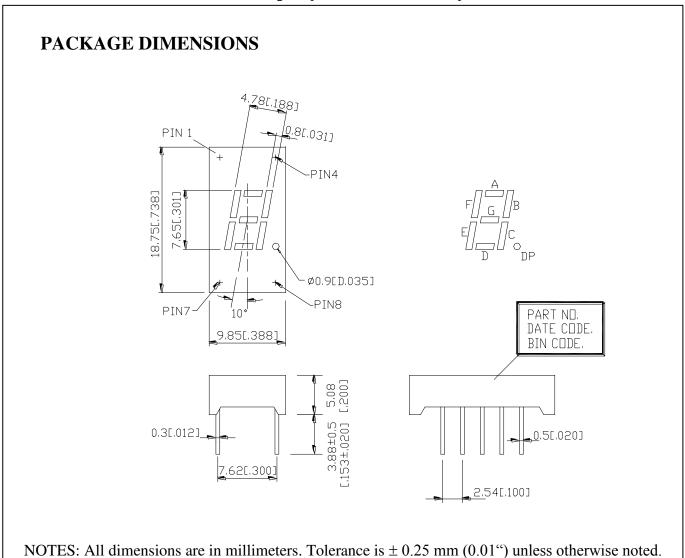
DEVICE

PART NO.	DESCRIPTION
GREEN	COMMON CATHODE
LTS-313AG	RT. HAND DECIMAL

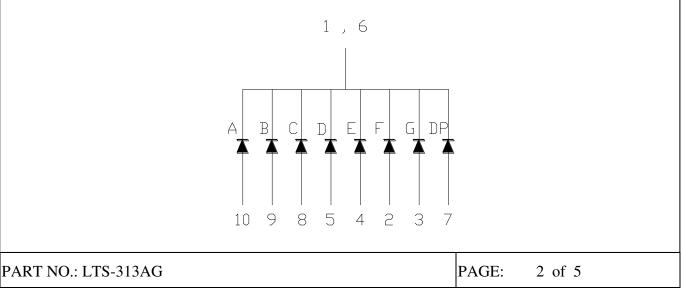
PART NO.: LTS-313AG



Property of Lite-On Only



INTERNAL CIRCUIT DIAGRAM



BNS-OD-C131/A4



Property of Lite-On Only

PIN CONNECTION

No.	CONNECTION
1	COMMON CATHODE
2	ANODE F
3	ANODE G
4	ANODE E
5	ANODE D
6	COMMON CATHODE
7	ANODE DP.
8	ANODE C
9	ANODE B
10	ANODE A

PART NO.: LTS-313AG

Property of Lite-On Only

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 ⁰ 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	IF=10mA
Peak Emission Wavelength	λp		565		nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$		30		nm	IF=20mA
Dominant Wavelength	λd		569		nm	IF=20mA
Forward Voltage Per Segment	$\mathbf{V}_{\mathbf{F}}$		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	Vr=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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.

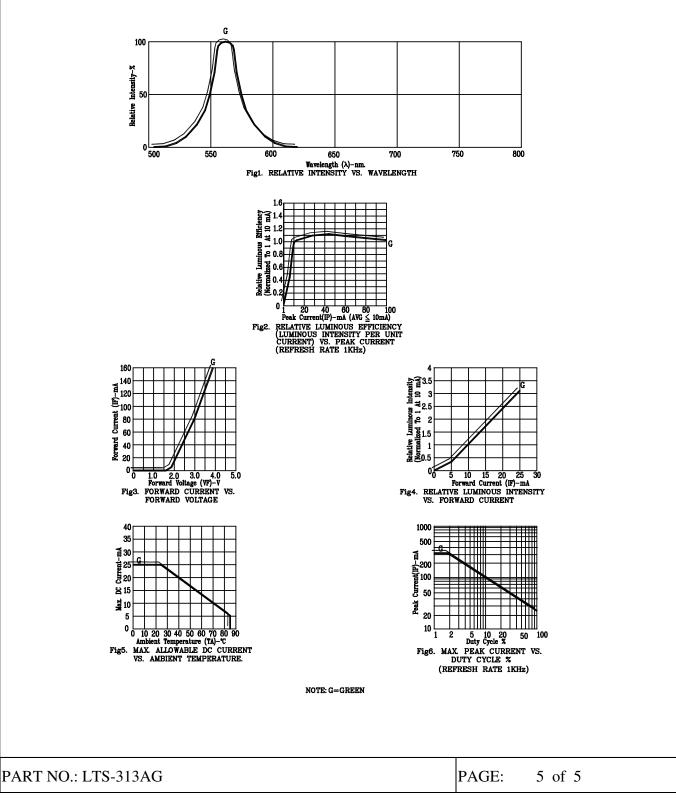
PART NO.: LTS-313AG	PAGE:	4 of 5

LITEON

LITE-ON ELECTRONICS, INC. Property of Lite-On Only

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



BNS-OD-C131/A4