



Spec No.: DS30-2005-237 Effective Date: 02/28/2006

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.56 inch (14.2 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 LTC-561AG is a 0.56 inch (14.2 mm) digit height triple digit seven-segment display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate. The display is covered with a gray pattern film, and has a gray face and white segments.

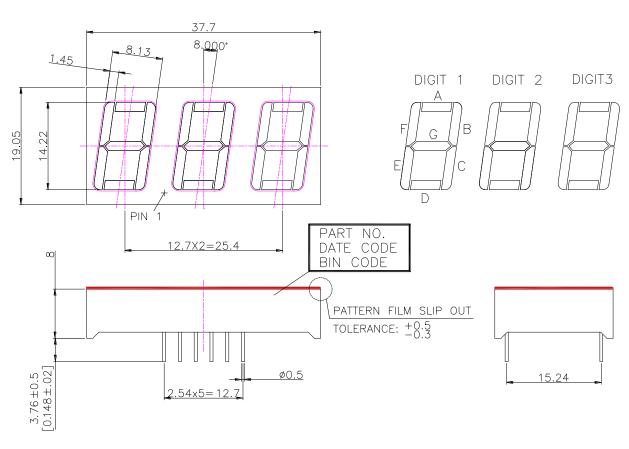
DEVICE

PART NO.	DESCRIPTION			
Green	Multiplex Common Anode			
LTC-561AG	Rt. Hand Decimal			

PART NO.: LTC-561AG PAGE: 1 of 5

Property of Lite-On Only

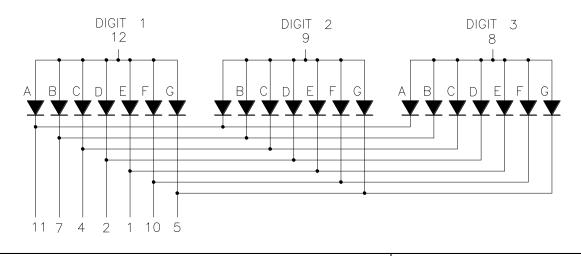
PACKAGE DIMENSIONS



NOTES:1. All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

- 2.Pin tip's shift tolerance is +/- 0.4 mm.
- 3. The part no. has a Gray face and white segments, taped with printed film no pin 1#3

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTC-561AG PAGE: 2 of 5

Property of Lite-On Only

PIN CONNECTION

NO.	CONNECTION					
1	CATHODE E					
2	CATHODE D					
3	CATHODE D.P.					
4	CATHODE C					
5	CATHODE G					
6	NO CONNECTION					
7	CATHODE B					
8	COMMON ANODE, DIGIT 3					
9	COMMON ANODE, DIGIT 2					
10	CATHODE F					
11	CATHODE A					
12	COMMON ANODE, DIGIT 1					

PART NO.: LTC-561AG PAGE: 3 of 5

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°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°C			

Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C,

or temperature of unit (during assembly) not over max. temperature rating above

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	870	2400		μcd	I _F =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 (Similar light Area)	Iv-m			2:1		I _F =10mA

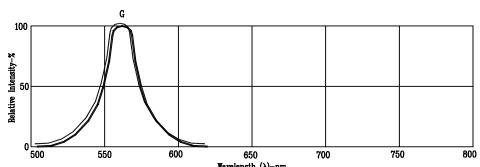
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

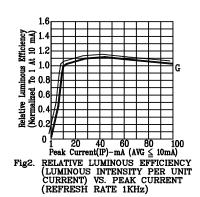
PART NO.: LTC-561AG PAGE: 4 of 5

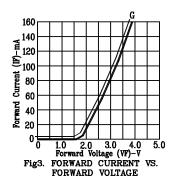
Property of Lite-On Only

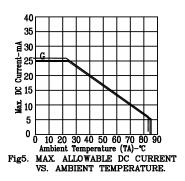
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

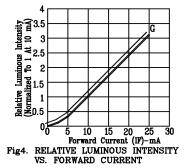
(25°C Ambient Temperature Unless Otherwise Noted)

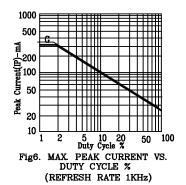












NOTE: G=GREEN

PART NO.: LTC-561AG PAGE: 5 of 5