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

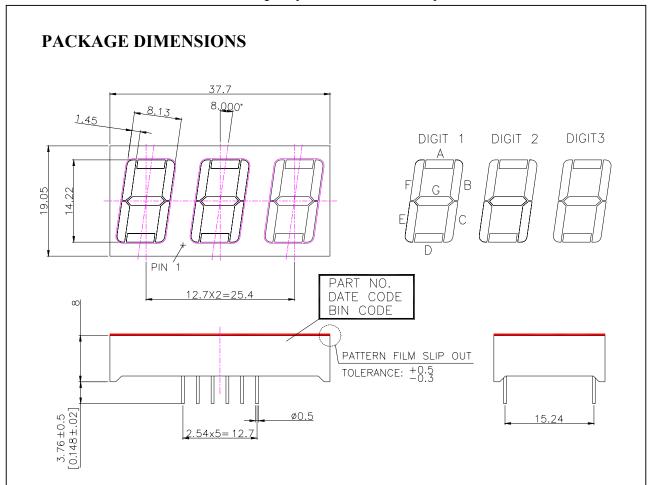
The LTC-561AG is a 0.56 inch (14.2 mm) digit height triple digit seven-segment display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate. The display is covered with a gray pattern film, and has a gray face and white segments.

DEVICE

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

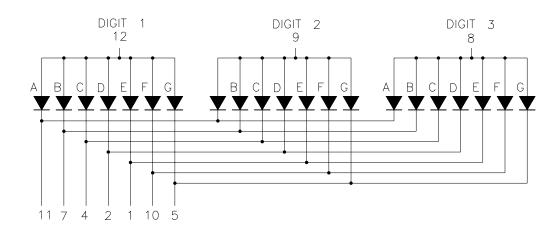
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- NOTES:1. All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.
 - 2.Pin tip's shift tolerance is +/- 0.4 mm.
 - 3. The part no. has a Gray face and white segments, taped with printed film no pin 1#3

INTERNAL CIRCUIT DIAGRAM



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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	3				
9	COMMON ANODE, DIGIT	2				
10	CATHODE F					
11	CATHODE A					
12	COMMON ANODE, DIGIT 1					

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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 $+85^{\circ}$ 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

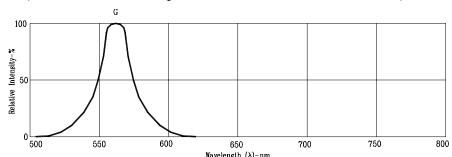
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

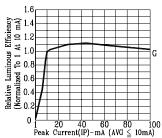
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Property of Lite-On Only

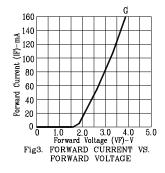
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

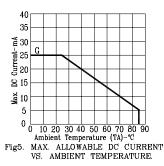
(25°C Ambient Temperature Unless Otherwise Noted)

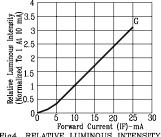




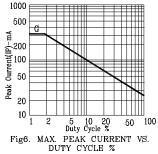
°1 20 40 60 80 100
Peak Current(IP)-ma (AVG ≤ 10mA)
Fig2. RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT
(REFRESH RATE 1KHz)







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



DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: G=GREEN

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