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.
- *LEAD-FREE PACKAGE (ACCORDING TO ROHS).

DESCRIPTION

The LTC-561JG is a 0.56 inch (14.2 mm) digit height triple digit seven-segment display. This device utilizes AlInGaP Green LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

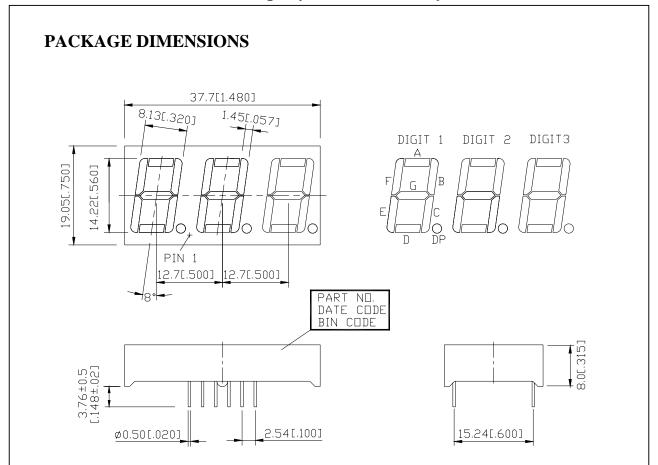
This low current seven-segment display is designed to perform under low power consumption. It is tested and selected for it's excellent low current characteristics. It can be driven in low current condition and the segments are matched. This driving current as low as 1mA per segment is applicable.

DEVICE

PART NO.	DESCRIPTION		
AlInGaP GREEN	Multiplex Common Anode		
LTC-561JG	Rt. Hand Decimal		

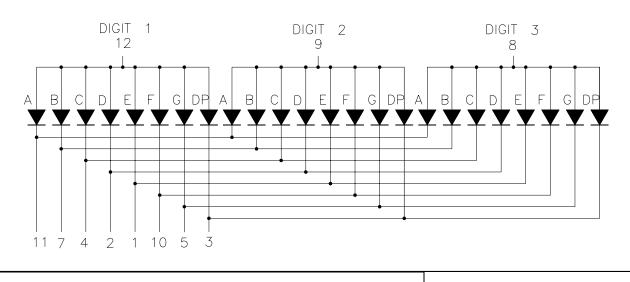
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NOTES: 1.All dimensions are in millimeters. Tolerances are \pm 0.25 mm (0.01") unless otherwise noted. 2.Pin tip's shift tolerance is \pm 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



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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				

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	70	mW		
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	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 $+105^{\circ}$ C			
Storage Temperature Range	-35°C to +105°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	200	577		μcd	I _F =1mA
Peak Emission Wavelength	λр		571		nm	I _F =20mA
Spectral Line Half-Width	Δλ		15		nm	I _F =20mA
Dominant Wavelength	λd		572		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.05	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 =1mA

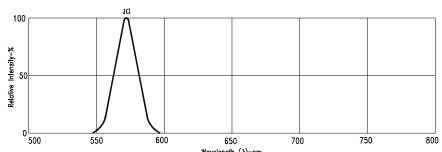
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

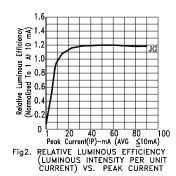
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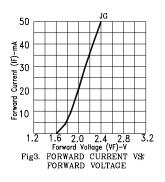
Property of Lite-On Only

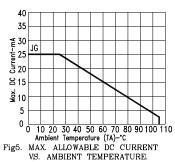
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

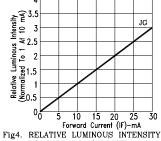








NOTE: JG=AlInGaP GREEN



VS. FORWARD CURRENT

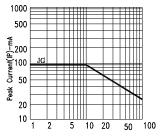


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

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