



**Spec No.: DS30-2001-385**Effective Date: 11/17/2001

Revision: -

**LITE-ON DCC** 

**RELEASE** 

BNS-OD-FC001/A4

# LITEON

## LITE-ON ELECTRONICS, INC.

## Property of Lite-on Only

### **FEATURES**

- \*0.56 inch (14.22 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-5601AJG is a 0.56 inch (14.22 mm) digit height single 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 green segments.

### **DEVICE**

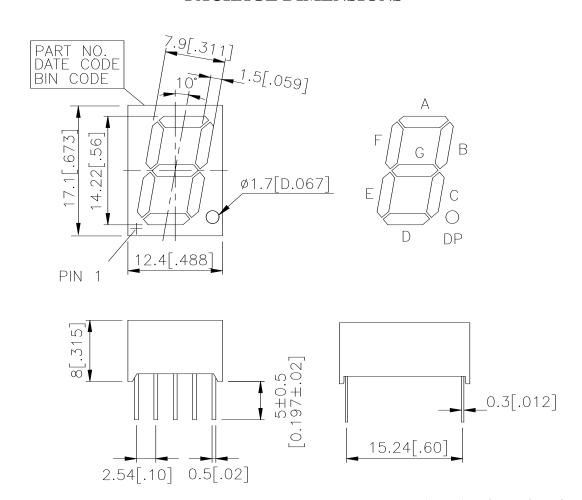
PART NO.	DESCRIPTION			
AlInGaP Green	Common Anode			
LTS-5601AJG	Rt. Hand Decimal			

PART NO.: LTS-5601AJG PAGE: 1 of 5

# LITE-ON ELECTRONICS, INC.

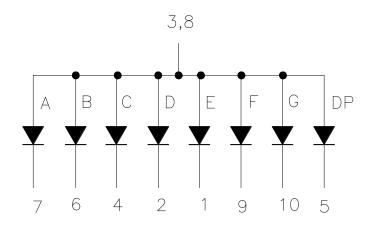
Property of Lite-on Only

## PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are  $\pm$  0.25-mm (0.01") unless otherwise noted.

## INTERNAL CIRCUIT DIAGRAM



PART NO.: LTS-5601AJG PAGE: 2 of 5

# LITEON LITE-ON ELECTRONICS, INC.

**Property of Lite-on Only** 

## PIN CONNECTION

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

PAGE: PART NO.: LTS-5601AJG 3 of 5



# LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-on Only

## 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 <sup>o</sup> C Per Segment	0.33	mA/ <sup>0</sup> C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C				
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

## ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

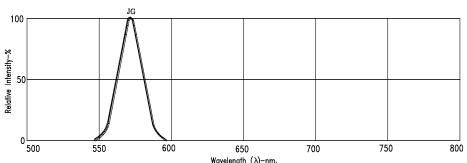
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	900		μcd	I <sub>F</sub> =1mA
Peak Emission Wavelength	λр		571		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		15		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λd		572		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	VF		2.05	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I <sub>F</sub> =1mA

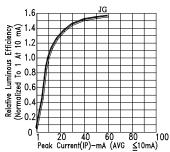
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

PART NO.: LTS-5601AJG PAGE: 4 of 5

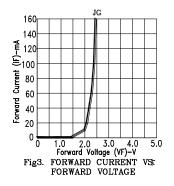
## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

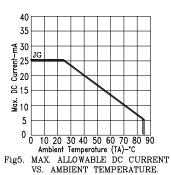
(25°C Ambient Temperature Unless Otherwise Noted)





0 1 20 40 60 80 100
Peak Current(IP)-mA (AVG \$10mA)
Fig2. RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT





JG

STEP 1 STEP

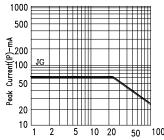


Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

NOTE : JG=AlInGaP Green

PART NO.: LTS-5601AJG PAGE: 5 of 5

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lite-On:
LTS-5601AJG