



# LED Display Product Data Sheet LTD-2601JS

Spec No.: DS30-2011-0188

Effective Date: 02/15/2012

Revision: -

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4

# **LITEON** LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

## **LED DISPLAY**

### **LTD-2601JS** **DATA SHEET**

<b>Rev</b>	<b>Description</b>	<b>By</b>
01	RDR Original Spec	Phanomkorn J. April 11, 2011

<b>Spec No.</b>	
<b>Date</b>	April 11, 2011
<b>Revision No.</b>	01
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<b>Customer Approval</b>	
<b>Date</b>	

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## **FEATURES**

- \* 0.28 inch (7 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)

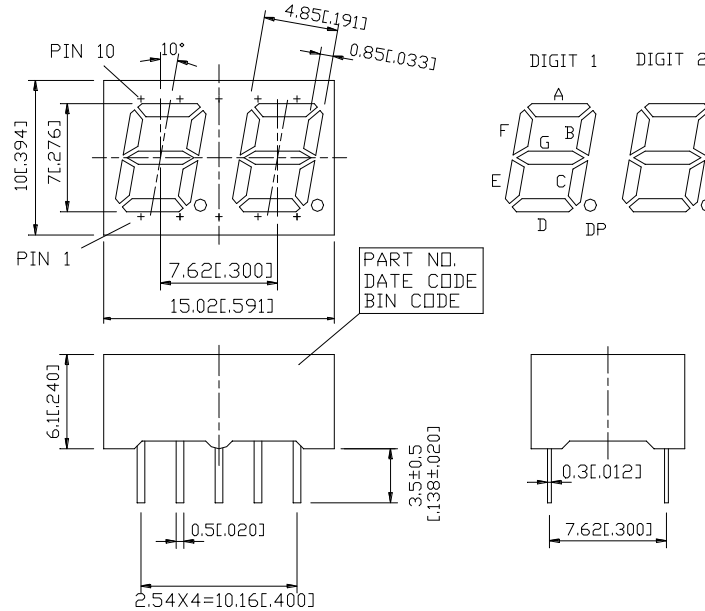
## **DESCRIPTION**

The LTD-2601JS is a 0.28 inch (7 mm) digit height dual digit seven-segment display. This device utilizes AlInGaP Yellow LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

## **DEVICE**

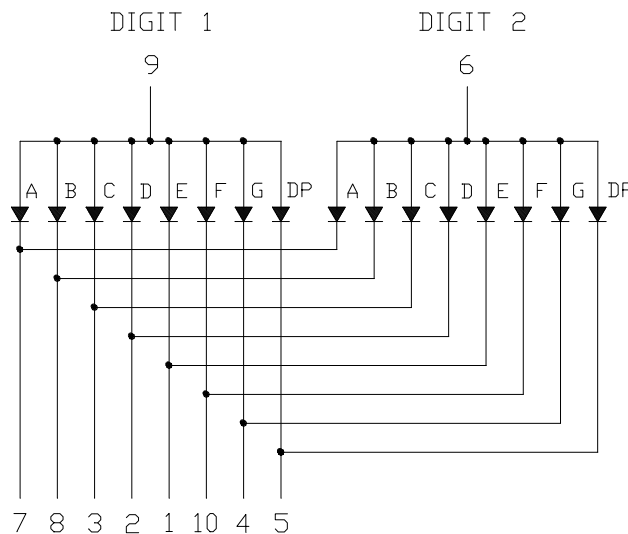
<b>PART NO.</b>	<b>DESCRIPTION</b>
AlInGaP Yellow	Duplex Common Anode
LTD-2601JS	Rt. Hand Decimal

## PACKAGE DIMENSIONS



- 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.
  3. Foreign material on segment  $\leq 10$  mils
  4. Ink contamination (surface)  $\leq 20$  mils
  5. Bending  $\leq 1/100$
  6. Bubble in segment  $\leq 10$  mils

## INTERNAL CIRCUIT DIAGRAM



## PIN CONNECTION

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

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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	60	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25°C Per Segment	0.28	mA/°C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +105°C	
Storage Temperature Range	-35°C to +105°C	

Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260<sup>0</sup>C  
or of temperature unit (during assembly) not over max. temperature rating above.

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

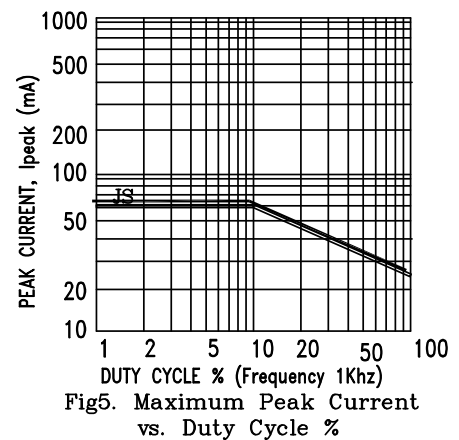
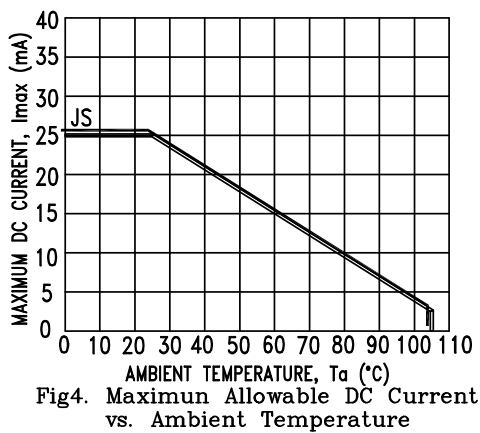
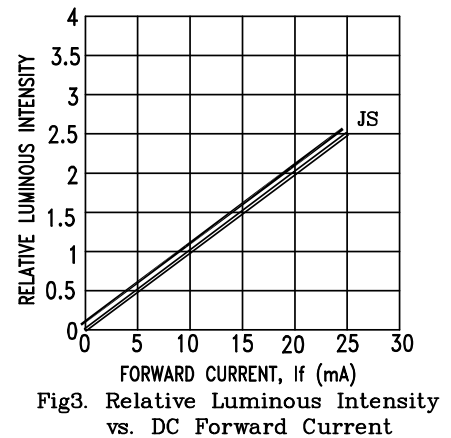
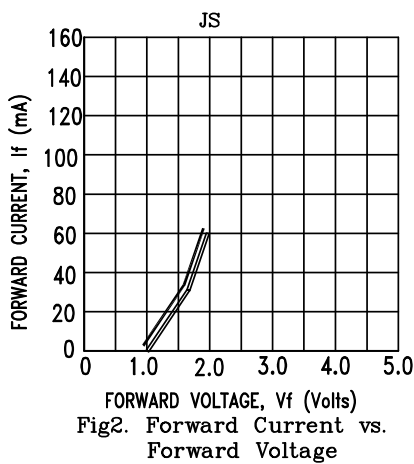
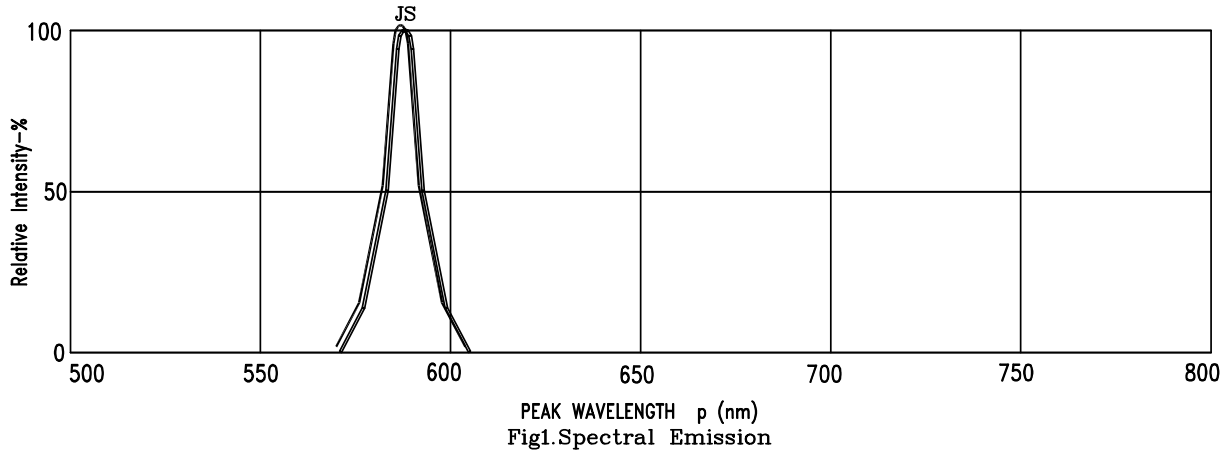
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I <sub>v</sub>	200	600		μcd	I <sub>F</sub> =1mA
Peak Emission Wavelength	λ <sub>p</sub>		588		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		15		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		587		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	V <sub>F</sub>		2.05	2.6	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio (Similar Light Area)	I <sub>v-m</sub>			2:1		I <sub>F</sub> =1mA

Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.
2. Cross talk specification <=2.5%
3. Reverse voltage is only for IR test. It can not continue to operate at this situation.

## TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JS=AlInGaP YELLOW