



Spec No.: DS30-2011-0188 Effective Date: 02/15/2012

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

LED DISPLAY

LTD-2601JS DATA SHEET

Rev	Description	Ву
01 RDR Original Spec	RDR Original Spec	Phanomkorn J.
	RDR Original Spec	April 11, 2011

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Customer Approval	
Date	

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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.

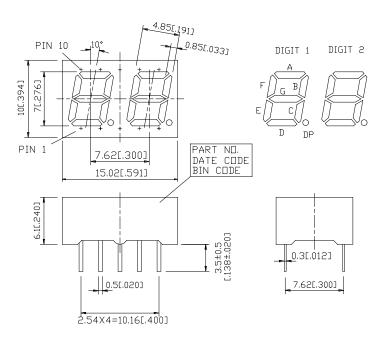
DEVICE

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

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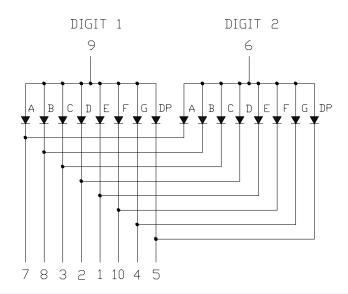
PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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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^oC

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	Iv	200	600		μcd	I _F =1mA
Peak Emission Wavelength	λр		588		nm	I _F =20mA
Spectral Line Half-Width	Δλ		15		nm	I _F =20mA
Dominant Wavelength	λd		587		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:

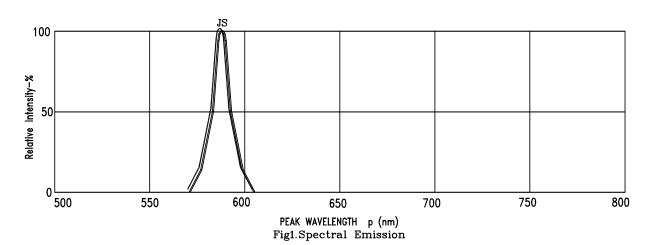
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.
- 2. Cross talk specification <=2.5%
- 3. Reverse voltage is only for IR test. It can not continue to operate at this situation.

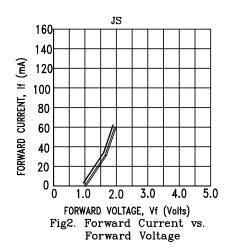
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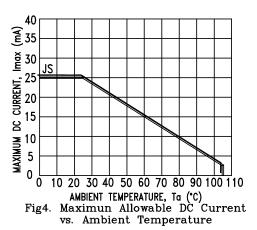
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)







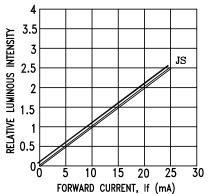
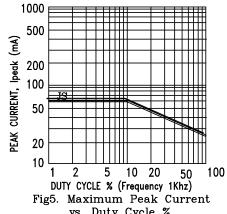


Fig3. Relative Luminous Intensity vs. DC Forward Current



vs. Duty Cycle %

NOTE: JS=AlInGaP YELLOW

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