



# LED Display Product Data Sheet LTC-2623JS

Spec No.: DS30-2000-407

Effective Date: 12/14/2012

Revision: A

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4



**LITE-ON TECHNOLOGY CORPORATION**

Property of Lite-On Only

**LED DISPLAY**

**LTC-2623JS**  
**DATA SHEET**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>ISSUER</b>	<b>DATE</b>
1	New Spec.	Meg Huang	09/01/2001
2	Add Liteon Spec	Reo Lin	12/11/2012

PART NO.: LTC-2623JS

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**FEATURES**

- \* 0.28 inch (7.0 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).

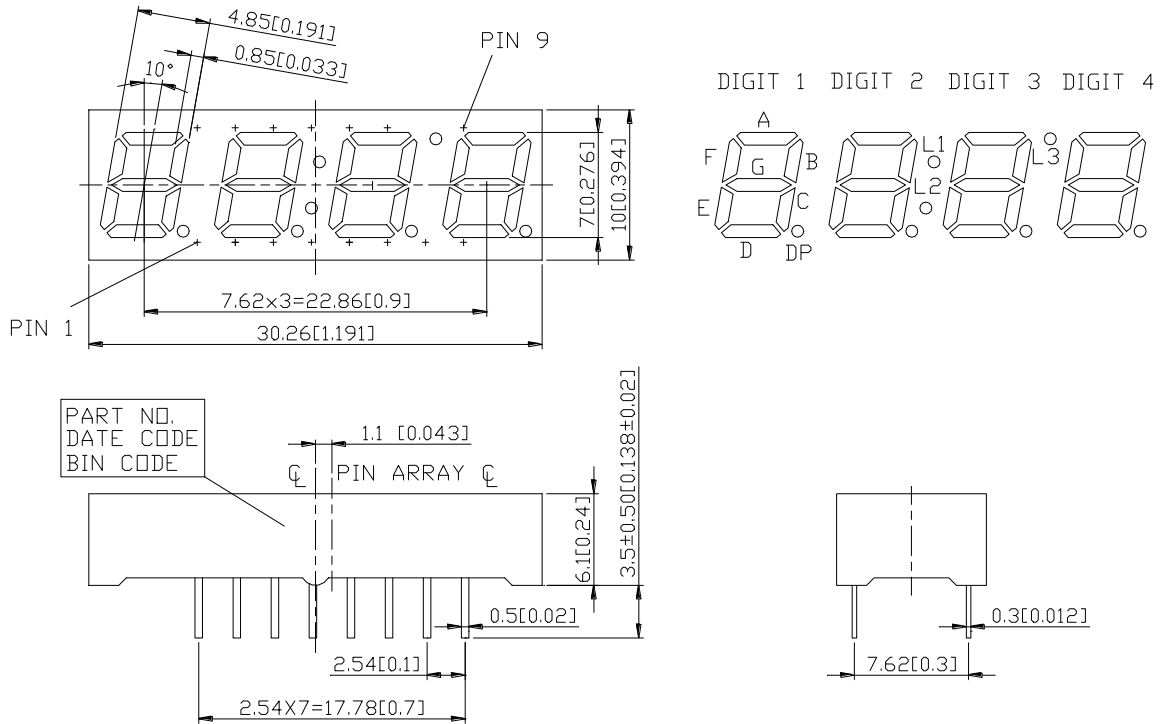
**DESCRIPTION**

The LTC-2623JS is a 0.28inch (7.0mm) digit height quadruple 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**

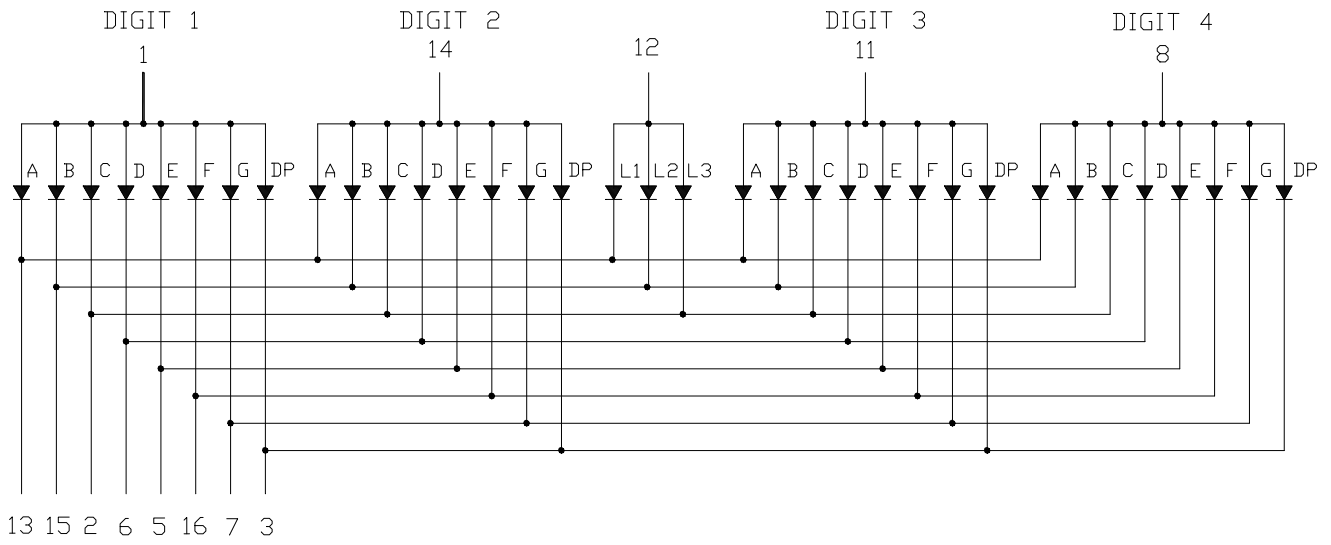
<b>PART NO.</b>	<b>DESCRIPTION</b>
AlInGaP Yellow	Multiplex Common Anode Rt. Hand Decimal
LTC-2623JS	

**PACKAGE DIMENSIONS**



- 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. Foreign material on segment ≅ 10mils
  4. Ink contamination (surface) ≅ 20mils
  5. Bending ≅ 1% of reflector length
  6. Bubble in segment ≅ 10mils
  7. Recommend the best pcb hole : diameter 1.0mm

**INTERNAL CIRCUIT DIAGRAM**



**PIN CONNECTION**

NO	CONNECTION
1	COMMON ANODE DIGIT 1
2	CATHODE C,L3
3	CATHODE DP
4	NO CONNECTION
5	CATHODE E
6	CATHODE D
7	CATHODE G
8	COMMON ANODE DIGIT 4
9	NO CONNECTION
10	NO PIN
11	COMMON ANODE DIGIT 3
12	COMMON ANODE L1, L2, L3
13	CATHODE A,L1
14	COMMON ANODE DIGIT 2
15	CATHODE B,L2
16	CATHODE F

**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 Derating Linear From 25°C Per Segment	25 0.33	mA mA/°C
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane.		

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

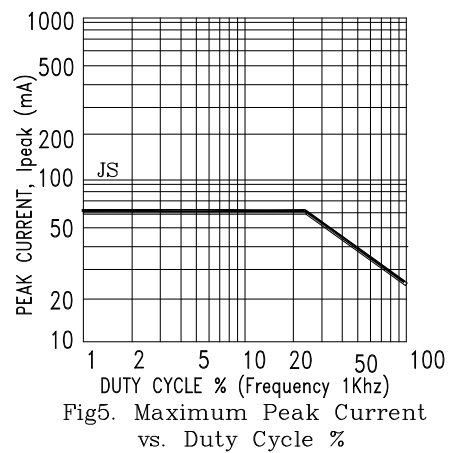
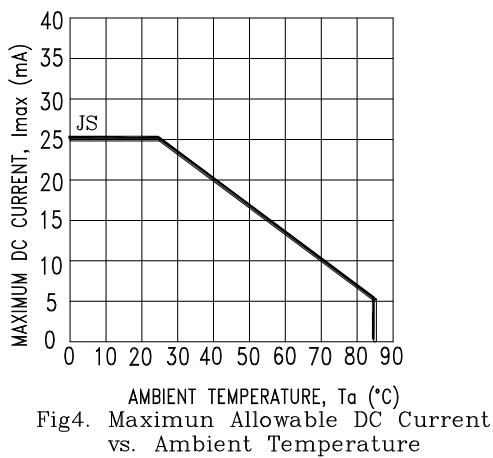
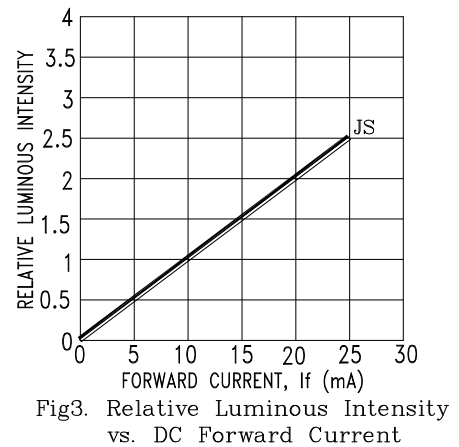
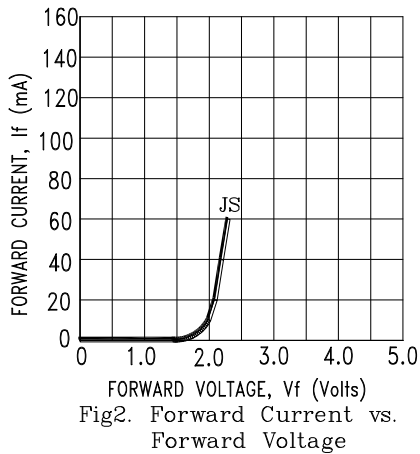
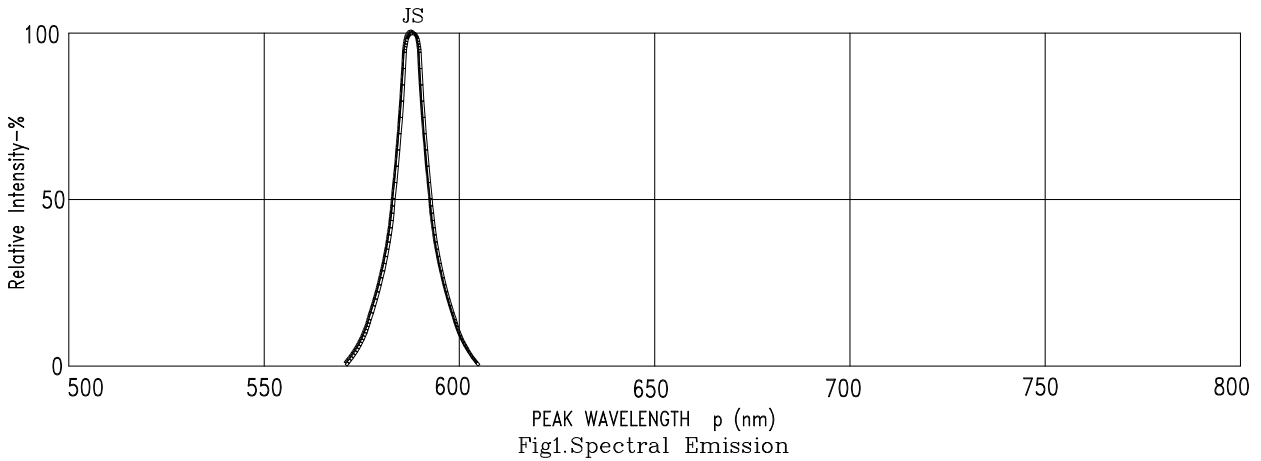
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I <sub>v</sub>	320	800		μcd	I <sub>F</sub> =1mA
Peak Emission Wavelength	λ <sub>p</sub>		588		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		15		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		587		nm	I <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(2)	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	I <sub>v</sub> -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'Eclairage) eye-response curve.
- Reverse voltage is only for IR test. It can not continue to operate at this situation.
- Cross talk specification ≤ 2.5%

**TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JS=AlInGaP YELLOW