



LED Display

Product Data Sheet

LTC-2621JD-01

Spec No.: DS30-2008-0126

Effective Date: 07/16/2010

Revision: B

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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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).**

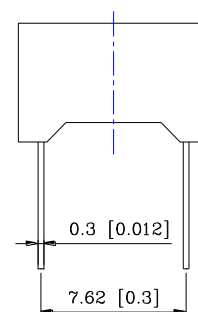
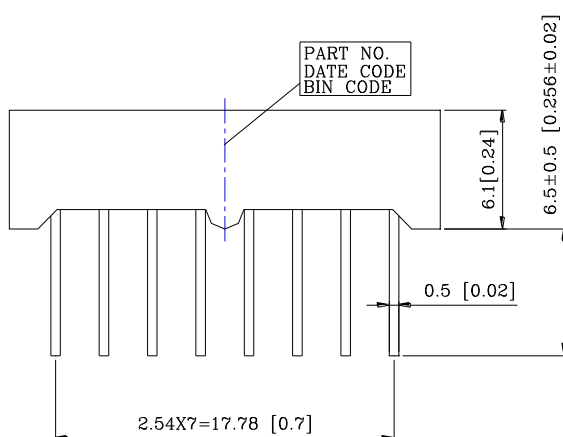
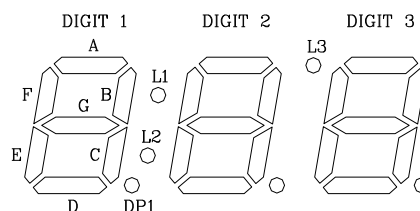
DESCRIPTION

The LTC-2621JD-01 is a 0.28 inch (7 mm) height triple digit display. The device utilizes AlInGaP Hyper Red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and have gray face and white segment color.

DEVICE

PART NO.	DESCRIPTION
AlInGaP Hyper RED	Multiplex Common Anode Rt.Hand Decimal
LTC-2621JD-01	

Technical drawing of a three-ported waveguide assembly. The drawing shows three waveguide units, each with a central channel and side ports. Dimensions are given in mm and inches. Key dimensions include: total width 22.64 [0.891], total height 10 [0.394], and individual unit width 7.62X2=15.24 [0.6]. A 10-degree angle is specified for the top flange. Pin 16 is at the top left, and Pin 1 is at the bottom left. A 10-degree angle is also indicated for the top flange of the rightmost unit.



2. Pin tip's shift tolerance is ± 0.4 mm.

PIN CONNECTION

No.	CONNECTION
1	CATHODE D
2	COMMON ANODE (DIGIT 1)
3	CATHODE D.P.
4	CATHODE E
5	COMMON ANODE (DIGIT 2)
6	CATHODE C , L3
7	CATHODE G
8	COMMON ANODE (DIGIT 3)
9	NO CONNECTION
10	NO PIN
11	NO PIN
12	CATHODE B , L2
13	COMMON ANODE L1 , L2 , L3
14	NO PIN
15	CATHODE A , L1
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)	90	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	
Solder 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	I _v	320	850		μcd	I _F =1mA
Peak Emission Wavelength	λ _p		650		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		636		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	I _{v-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.

BIN TABLE

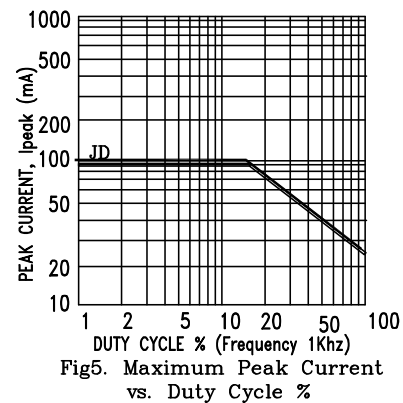
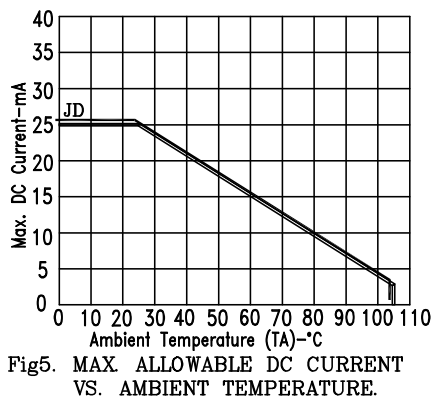
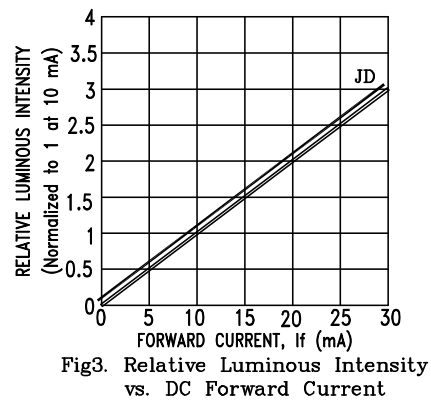
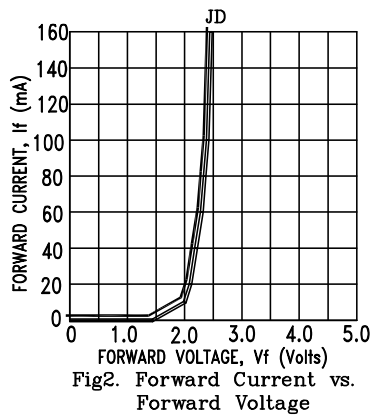
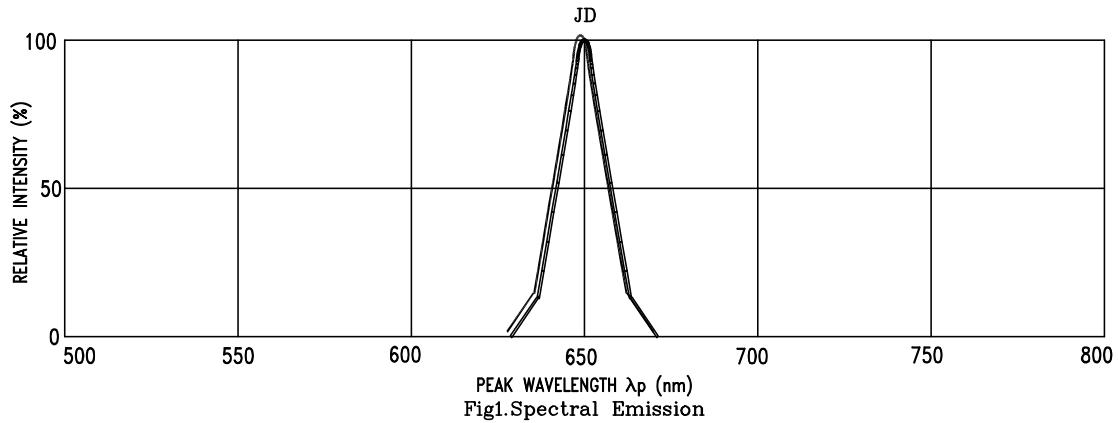
BIN TEBLE 2 FOR LUMINOUS INTENSITY

BIN GRADE	F	G	H	J	K
RANGE(ucd)I _F =10mA	321-500	501-800	801-1300	1301-2100	2101-3400

The Luminous Intensity Tolerance ±15percentage

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JD=AlInGaP HYPER RED