

## **LED DISPLAY**

### **LTC-2621JD-01** **DATASHEET**

<u>Rev</u>	<u>Description</u>	<u>By</u>
<b>01</b>	<b>ORIGINAL</b> (Refer to contour drawing Revision (-))	<b><u>KITTISAK</u></b> <b><u>May 16/2008</u></b>
<b>(Above data for PD and Customer tracking only)</b>		
<b>-</b>	<b>NPPR Received and Upload on OPNC</b>	<b><u>KITTISAK</u></b> <b><u>May 17/2008</u></b>

SPEC. NO.: DS30-2008-0126

D A T E : May 17/2008

REV. NO. : -

PAGE NO. : 0 OF 5

## 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).**

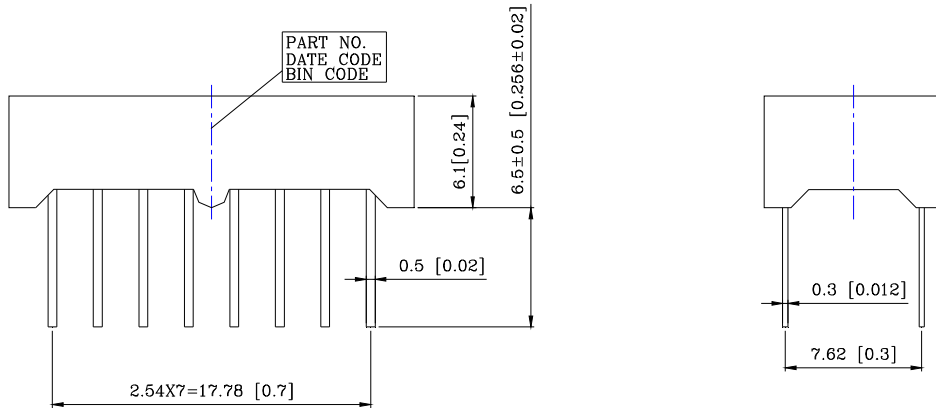
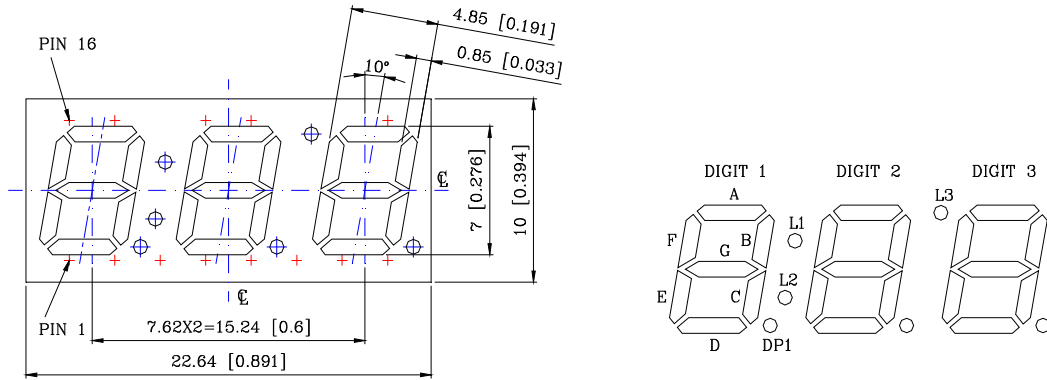
## DESCRIPTION

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

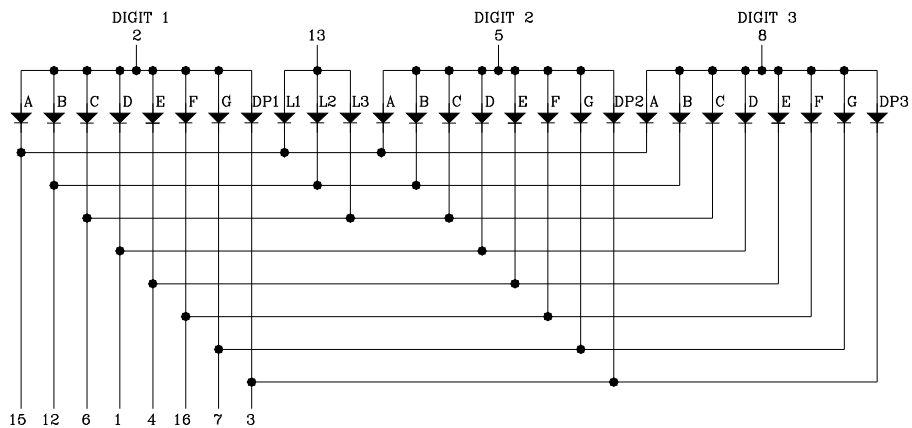
PART NO.	DESCRIPTION
AlInGaP Hyper RED	Multiplex Common Anode
LTC-2621JD-01	Rt.Hand Decimal

## PACKAGE DIMENSIONS



NOTES: 1. All dimensions are in millimeters. Tolerance is  $\pm 0.25$  mm (0.01") unless otherwise noted.  
 2. Pin tip's shift tolerance is  $\pm 0.4$  mm.

## INTERNAL CIRCUIT DIAGRAM



## 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

# LITEON LITE-ON TECHNOLOGY CORPORATION

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 )	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 <sub>v</sub>	320	850		μcd	I <sub>F</sub> =1mA
Peak Emission Wavelength	λ <sub>p</sub>		650		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		20		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		636		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	V <sub>F</sub>		2.1	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</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.

### BIN TABLE

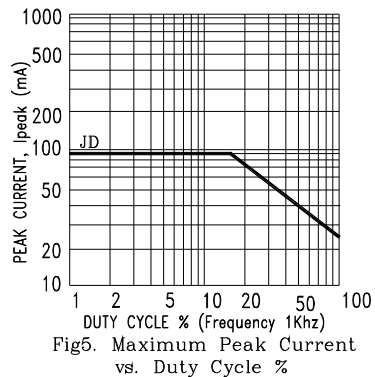
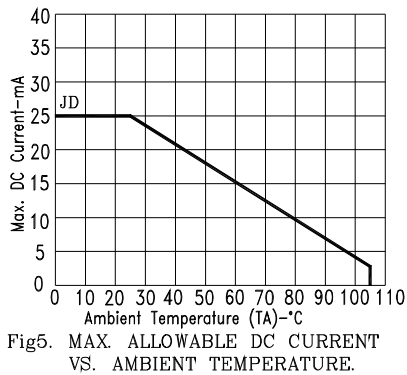
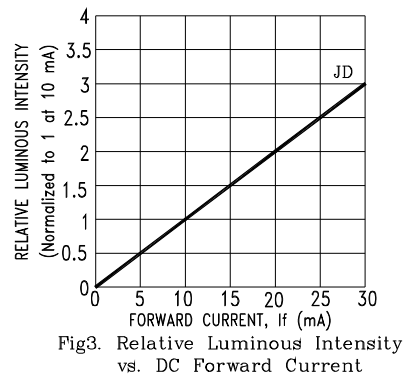
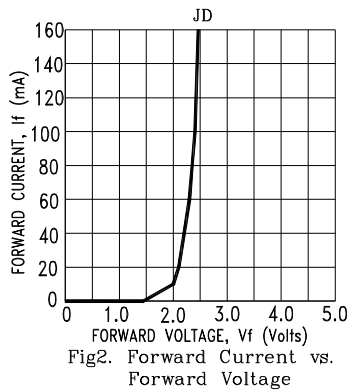
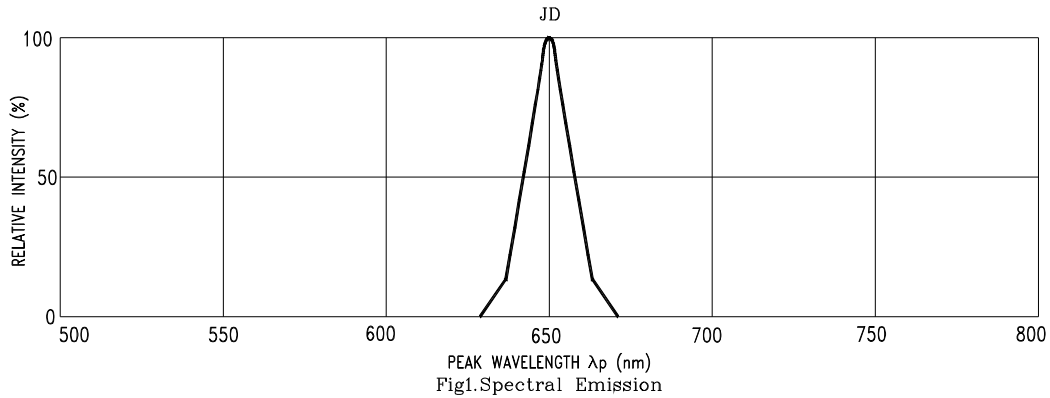
BIN TABLE 2 FOR LUMINOUS INTENSITY

BIN GRADE	F	G	H	J	K
RANGE(μcd)I <sub>F</sub> =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