



LED Display

Product Data Sheet

LTS-3861JR-J

Spec No.: DS30-2008-0054

Effective Date: 08/17/2013

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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LED DISPLAY**LTS-3861JR-J****DATA SHEET**

Rev	Description	By
01	ORIGINAL (Refer to contour drawing Revision (-))	Warin S. <u>Sep 21,2007</u>
(Above data for PD and Customer tracking only)		
-	NPPR Received and Upload on OPNC	<u>KITTISAK</u> <u>Mar 15/2008</u>
A	Update Bin table on page 4 of 7 to follow up CSC no. 30-2012-058	<u>Kritsana T.</u> <u>Nov 26/2012</u>

SPEC. NO.: DS30-2008-0054D A T E : Nov 26/2012REV. NO. : APAGE NO. : 0 OF 7

FEATURES

- * 0.3 inch (7.62 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)**

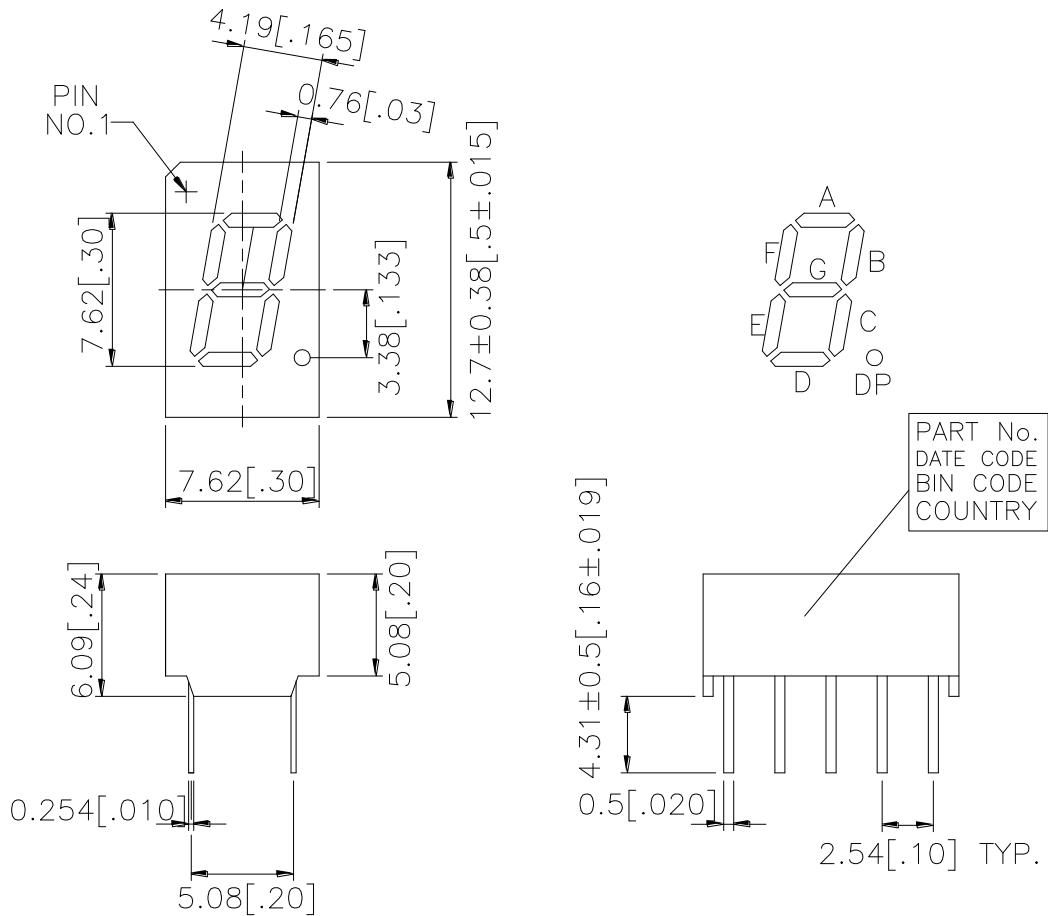
DESCRIPTION

The LTS-3861JR-J is a 0.3 inch (7.62 mm) height digit display. The device utilizes AlInGaP super red LED chips which are made from AlInGaP on a non-transparent GaAs substrate, and have gray face and white segment color.

DEVICE

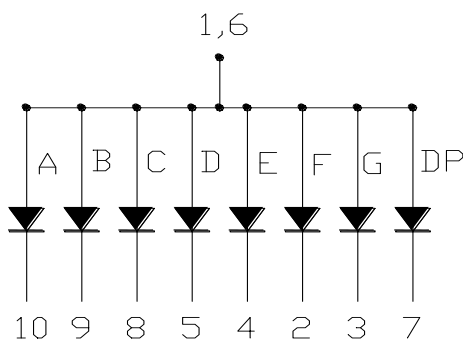
PART NO.	DESCRIPTION
AlInGaP SUPER RED	COMMON ANODE RT. HANDE DECIMAL
LTS-3861JR-J	

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

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

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 Condition: 1/16 inch below seating plane for 5 seconds at 255°C., or temperature of unit (during assembly) not over max. temperature rating above		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

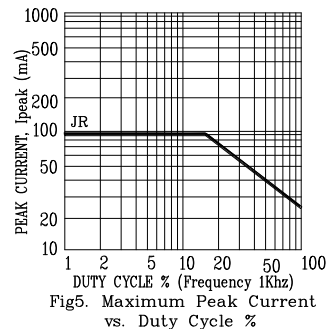
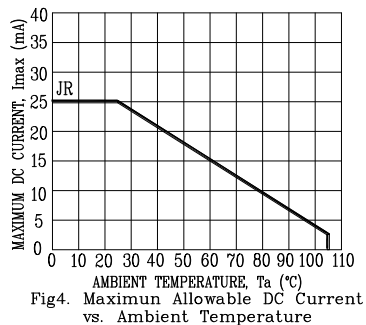
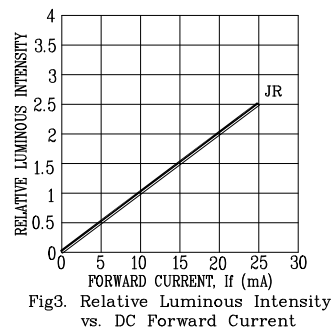
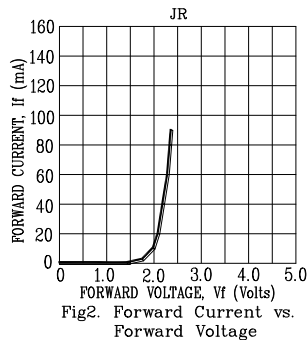
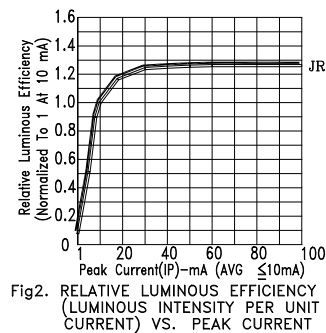
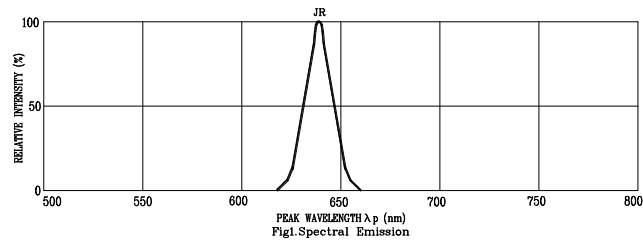
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	501	1300 9000		μcd	I _F =1mA I _F =10mA
Peak Emission Wavelength	λ _p		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		631		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio (Same 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 2	BIN RANK TABLE			ucd I _F =1mA
BIN GRAD	G	H	J	
RANG	501-800	801-1300	1301-2100	

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

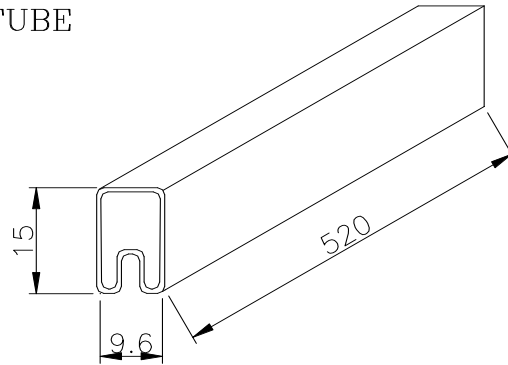
(25°C Ambient Temperature Unless Otherwise Noted)



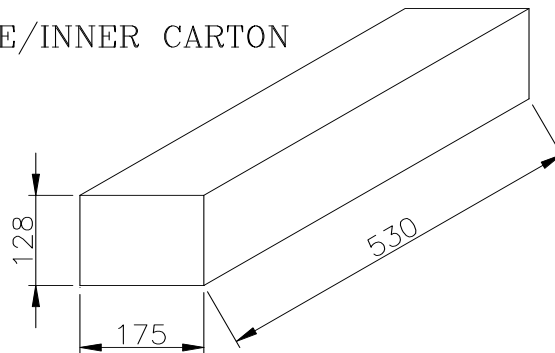
NOTE : JR=AlInGaP SUPER RED

THE PACKING SPEC.
FOR LTS-3861JR-J

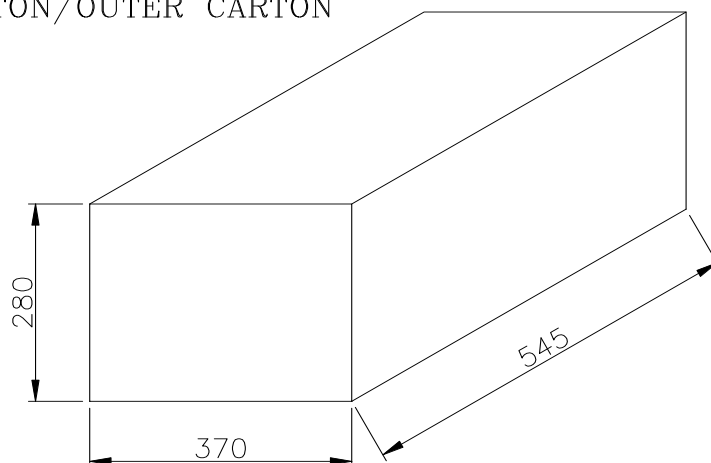
39 PCS/PACKING TUBE



132 PACKING TUBE/INNER CARTON



4 INNER CARTON/OUTER CARTON



Date Code

The four number shows date code

The date code is composed of the following characters;

0615
 ↳ 15 = Work Week number of year
 ↳ 06 = Year (06 for 2006, 07 for 2007, 08 for 2008)

Label indication

ONTUBE

	MATERIAL NO. : LTS-386JR-J	BATCH : G
	QUANTITY : 39	
	CUS P/N :	MACHINE :
	DATE CODE : 0613	PB FREE

ON INNER CARTON

	MATERIAL NO. : LTS-386JR-J	BATCH : G
	QUANTITY : 5148	
	CUS P/N :	MACHINE :
	DATE CODE : 0613	PB FREE

LITEON FINISHED GOODS STOCK LABEL

TAG NO. : T025085
 CUSTOMER : Hitachi
 CUSPART NO. :
 MATERIAL GROUP : 030800CHG
 MATERIAL NO : LTS-386JR-J
 BATCH : G
 QUANTITY : 5148
 DATE CODE : 0613
 COMMENT : PBF
 SHELF : BA1

ON OUTER CARTON

LITEON FINISHED GOODS STOCK LABEL CTNNO.: 1

CUSTOMER : Hitachi	
CUSTOMER P/N : NA	
CUSTOMER P/N : LTS-386JR-J	
BATCH	QUANTITY
G	20892
TOTAL	20892

LITEON FINISHED GOODS STOCK LABEL CTNNO.: 1

DELIVERY NOTE :
 CUSTOMER PO. :
 TYPE OF PACKAGE :
 INVOICE NO. :
 DATE CODE :