LITEON®
OPTOELECTRONICS

LED Display

Product Data Sheet

LTD-2601JG-J

Spec No.: DS30-2012-0016

Effective Date: 07/31/2012

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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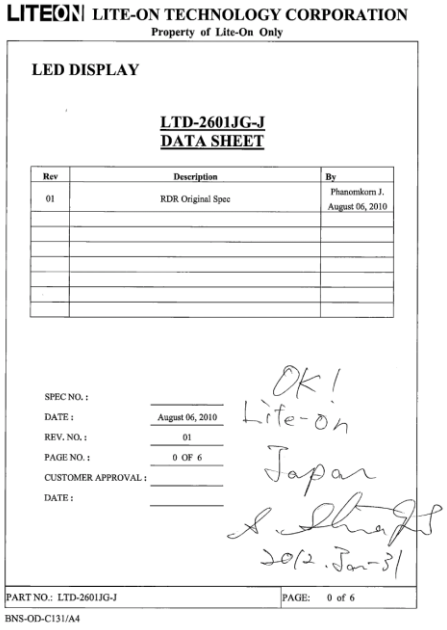
LED DISPLAY

LTD-2601JG-J
DATA SHEET

Rev	Description	By
01	RDR Original Spec	Phanomkorn J. August 06, 2010
-	NPPR Original Spec Same as rev.01	Meechana P. January 31, 2012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LED DISPLAY

LTD-2601JG-J
DATA SHEET

Rev	Description	By
01	RDR Original Spec	Phanomkorn J. August 06, 2010

SPEC NO. :
DATE : August 06, 2010
REV. NO. : 01
PAGE NO. : 0 OF 6
CUSTOMER APPROVAL :
DATE :

OK!
Lite-On
Japan
2012. Jan-31

PART NO.: LTD-2601JG-J | PAGE: 0 of 6
BNS-OD-C131/A4

SPEC NO. : DS30-2012-0016

DATE : January 31,2012

REV. NO. : -

PAGE NO. : 0 OF 6

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)

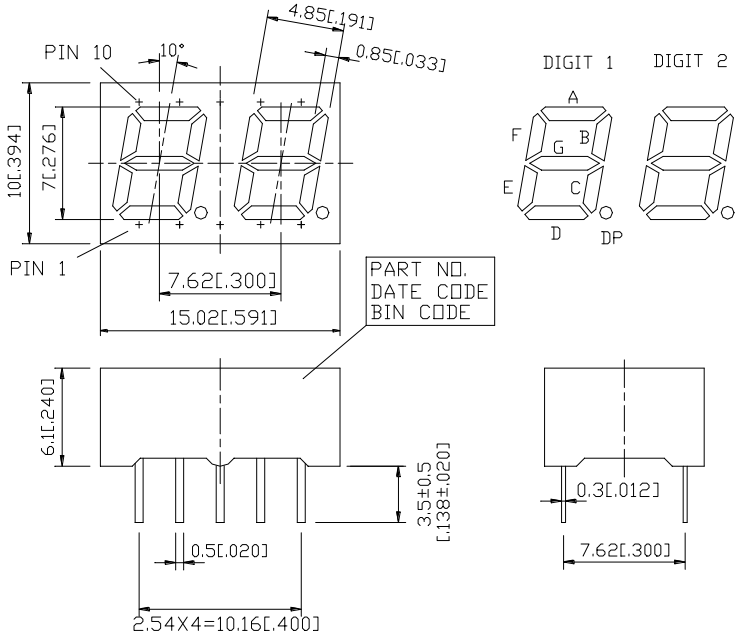
DESCRIPTION

The LTD-2601JG-J is a 0.28 inch (7 mm) digit height dual digit seven-segment display. This device utilizes AlInGaP Green 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 Green	Duplex Common Anode
LTD-2601JG-J	Rt. Hand Decimal

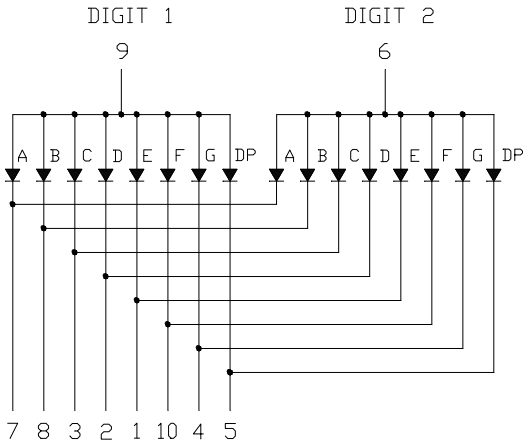
PACKAGE DIMENSIONS



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≦1/100
6. Bubble in segment ≦10mils

INTERNAL CIRCUIT DIAGRAM



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

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℃ Per Segment	0.28	mA/℃
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35℃ to +105℃	
Storage Temperature Range	-35℃ to +105℃	
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C 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	I_V	200	540		μcd	I_F=1mA
Peak Emission Wavelength	λp		571		nm	I_F=20mA
Spectral Line Half-Width	Δλ		15		nm	I_F=20mA
Dominant Wavelength	λd		572		nm	I_F=20mA
Forward Voltage Per Segment	V_F		2.05	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 TABLE 2 FOR LUMINOUS INTENSITY

BIN GRADE	E	F	G	H	J	K
RANGE(ucd)IF=1mA	201-320	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)

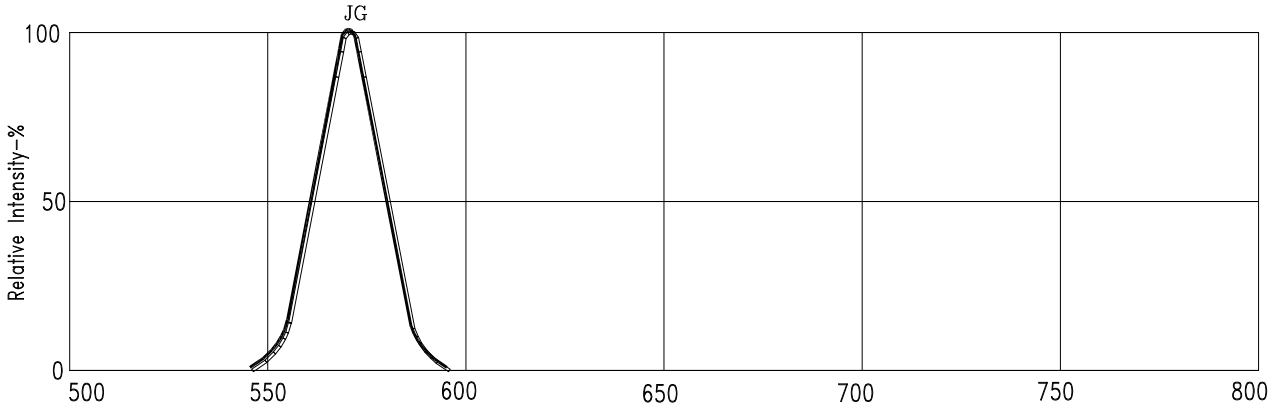


Fig1.Spectral Emission

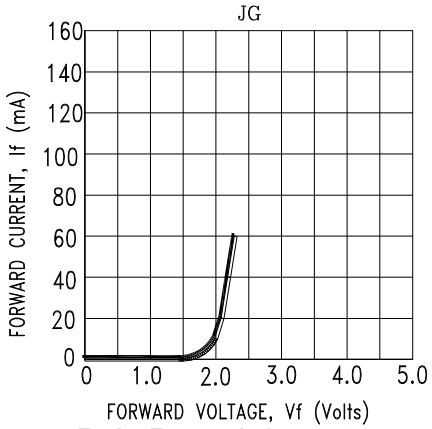


Fig2. Forward Current vs. Forward Voltage

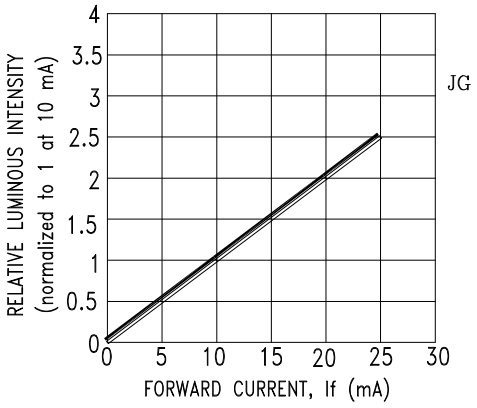


Fig3. Relative Luminous Intensity vs. DC Forward Current

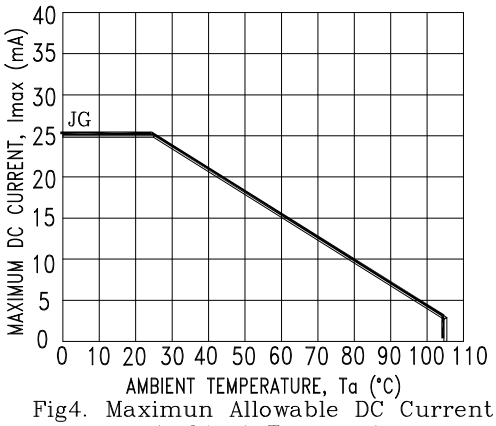


Fig4. Maximun Allowable DC Current vs. Ambient Temperature

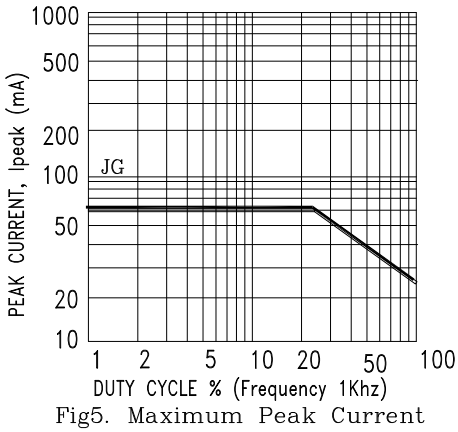
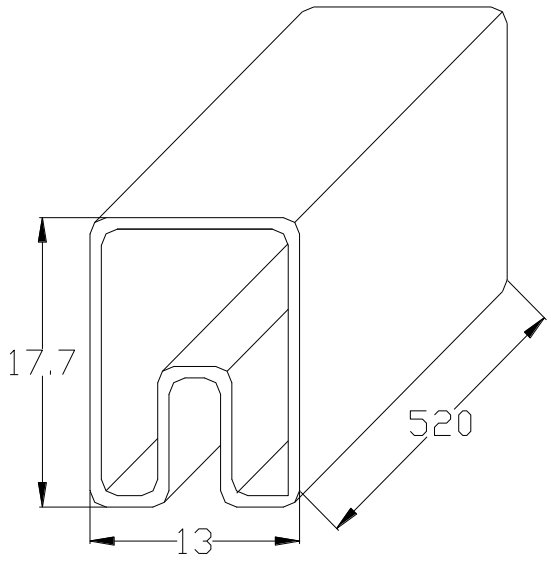


Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE : JG=AlInGaP Green

PACKING SPEC

Units / Tube 33



Tubes / Inner Carton: 90

Units / Inner Carton: 2970

Tubes / Outer Carton: 360

Units / Outer Cartoon: 11880