



LED Display Product Data Sheet LTP-6101G

Spec No.: DS30-2007-0113

Effective Date: 07/28/2007

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LED DISPLAY

LTP-6101G (FOR AEROBIC ONLY)

DATA SHEET

Rev	Description	By
-	Original Spec	<u>Phanomkorn J.</u>

SPEC. NO.: DS30-2007-0113

DATE : 26/JUNE/'07

REV. NO.: -

LITEON LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

FEATURES

- * 0.4 inch (10 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)**

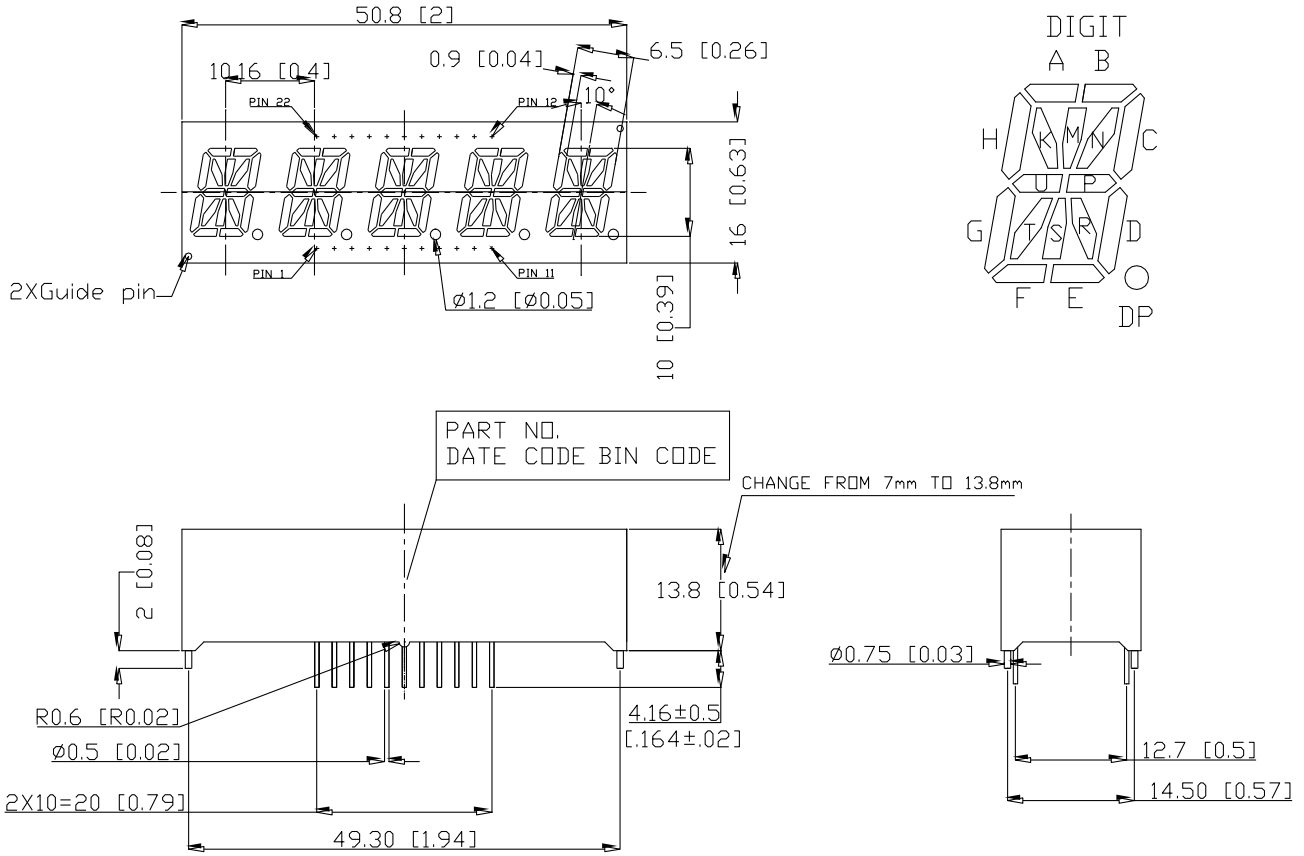
DESCRIPTION

The LTP-6101G is a 0.4 inch (10 mm) digit height dual digit 16- segments alphanumeric display. This device utilizes Green LED chips, which are made from GaP on a transparent GaP substrate, and has a black face and white segments.

DEVICE

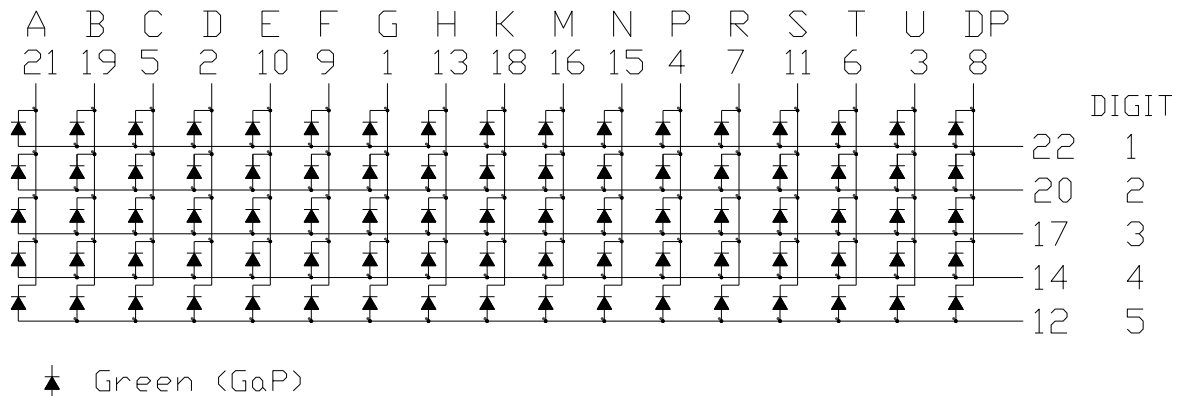
PART NO.	DESCRIPTION
GREEN	Duplex Common Anode
LTP-6101G	Rt. Hand Decimal

PACKAGE DIMENSIONS



- NOTES: 1. All dimensions are in millimeters. Tolerances are ± 0.25 mm unless otherwise note.
 2. Pin tip's shift tolerance is ± 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	CATHODE G
2	CATHODE D
3	CATHODE U
4	CATHODE P
5	CATHODE C
6	CATHODE T
7	CATHODE R
8	CATHODE DP
9	CATHODE F
10	CATHODE E
11	CATHODE S
12	COMMON ANODE CHARACTER 5
13	CATHODE H
14	COMMON ANODE CHARACTER 4
15	CATHODE N
16	CATHODE M
17	COMMON ANODE CHARACTER 3
18	CATHODE K
19	CATHODE B
20	COMMON ANODE CHARACTER 2
21	CATHODE A
22	COMMON ANODE CHARACTER 1

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ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	100*	mA
Continuous Forward Current Per Segment	25	mA
Forward Current Derating from 25 ⁰ C	0.33	mA/ ⁰ C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 ⁰ C to +105 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +105 ⁰ C	

Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260⁰C
or of temperature unit (during assembly) not over max. temperature rating above.

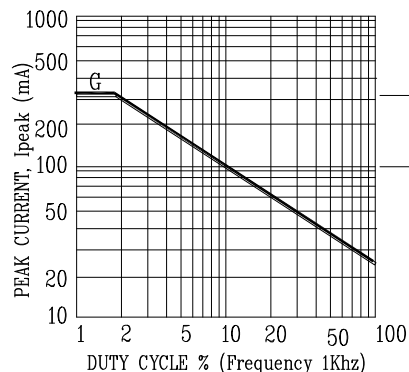
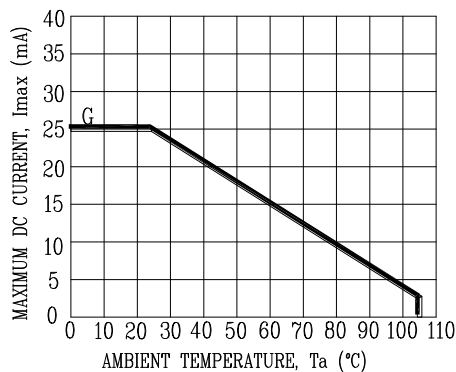
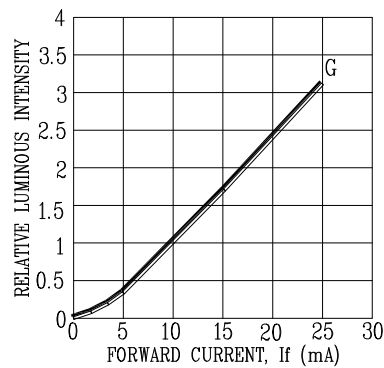
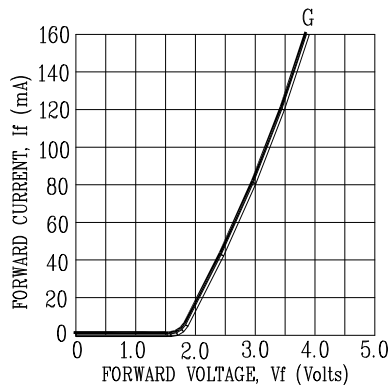
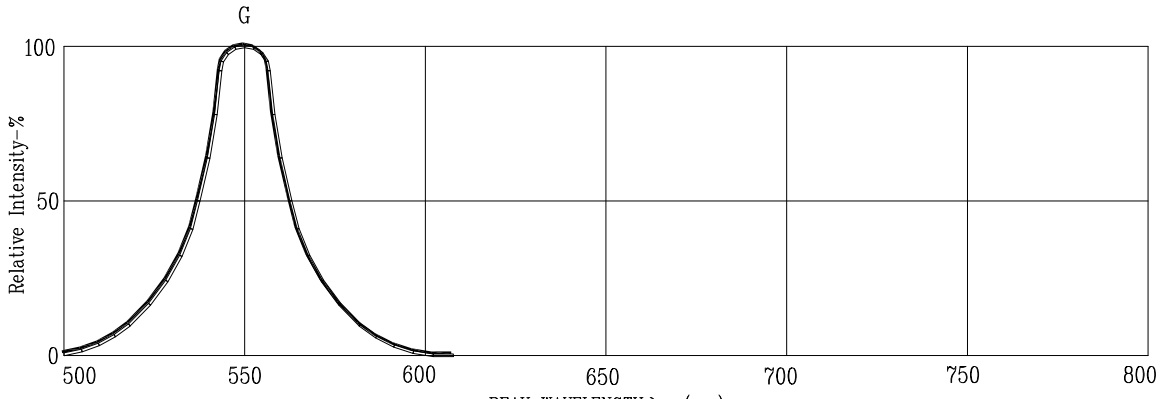
ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25⁰C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I _v	500	2200		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λ _d		569		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 =10mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



OPERATION IN THIS REGION REQUIRES TEMPERATURE DERATING OF I_{peak} MAXIMUM

NOTE: G=STD GREEN