LITEON®
OPTOELECTRONICS

LED Display

Product Data Sheet

LTS-6460G

Spec No.: DS-30-97-120

Effective Date: 01/19/2005

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

* 0.56 inch (14.22 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-6460G is a 0.56 inch (14.22 mm) digit height single digit seven-segment display. This device uses green LED chips(GaP epi on GaP substrate) . The display has gray face and whtie segments.

DEVICE

PART NO.	DESCRIPTION
GREEN	Common Anode
LTS-6460G	Rt. Hand Decimal

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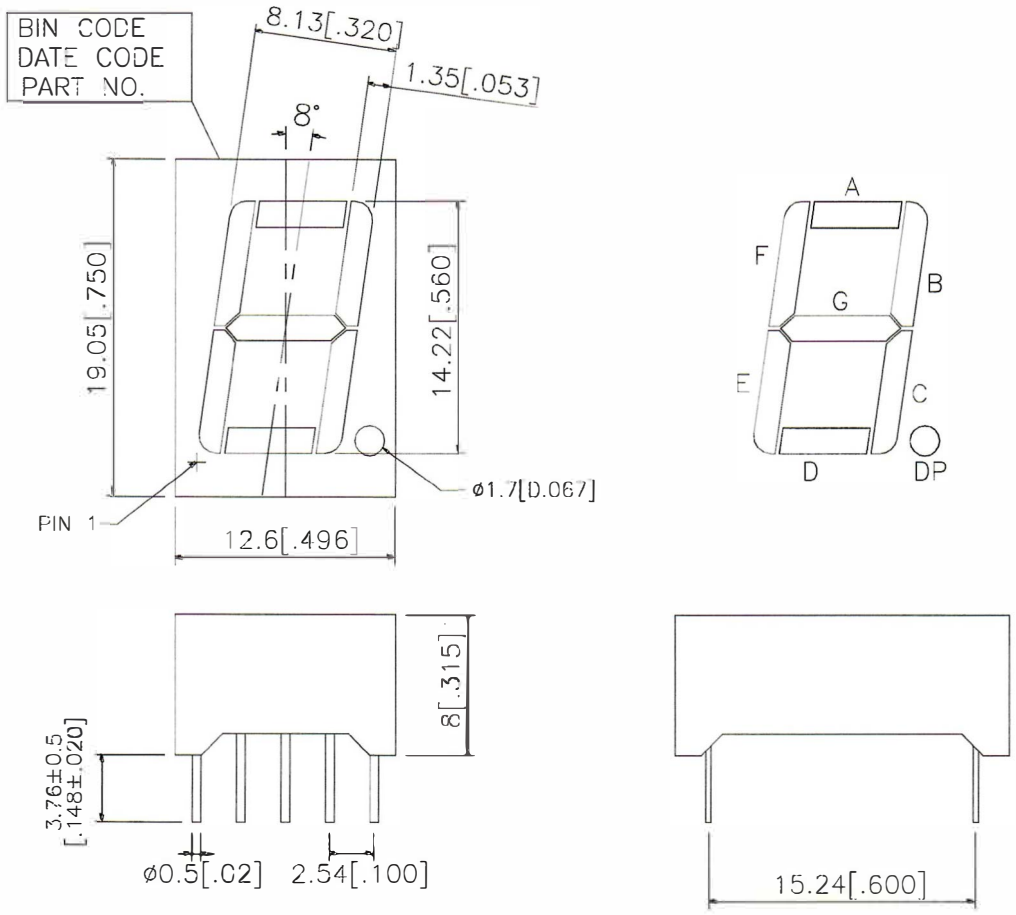
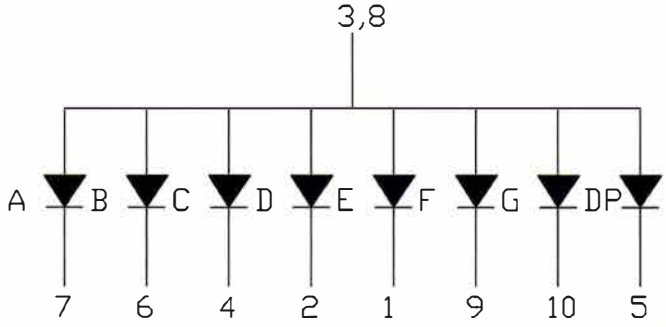
PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerance:± 0.25-mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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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 25^0C	0.33	mA/^{0}C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35^{0}C to +85^{0}C	
Storage Temperature Range	-35^{0}C to +85^{0}C	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260^{0}C		

** see figure 5 to establish pulsed condition*

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25^{0}C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	870	2400		μcd	IF=10mA
Peak Emission Wavelength	λp		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	IF=20mA
Dominant Wavelength	λd		569		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	IR			100	μA	VR=5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		IF=10mA

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

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

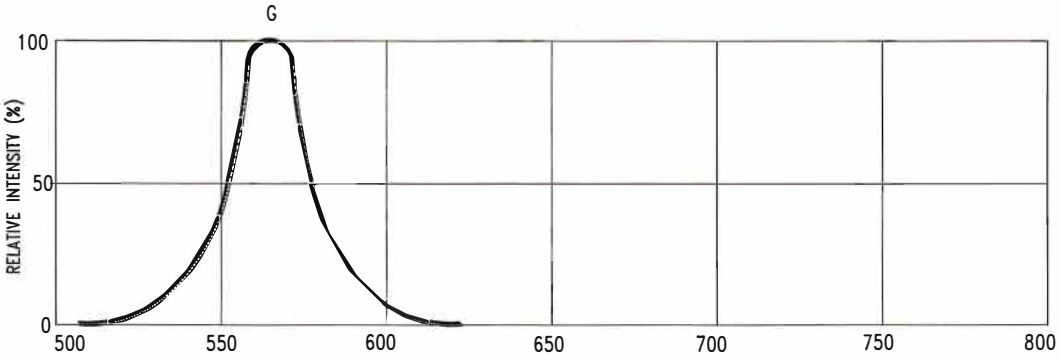

Fig1.Spectral Emission

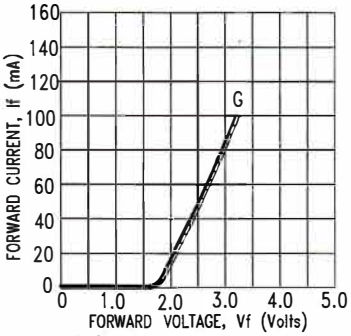

Fig2. Forward Current vs. Forward Voltage

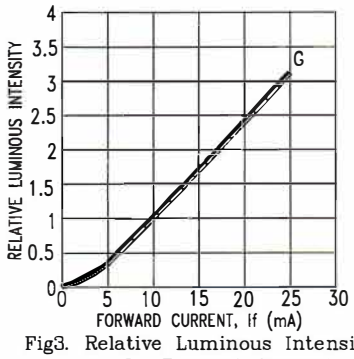

Fig3. Relative Luminous Intensity vs. DC Forward Current

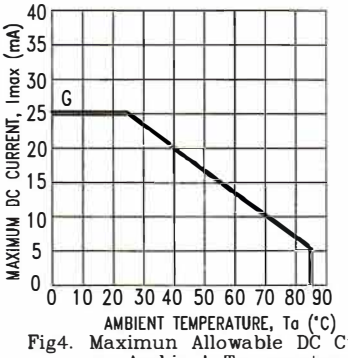

Fig4. Maximun Allowable DC Current vs. Ambient Temperature

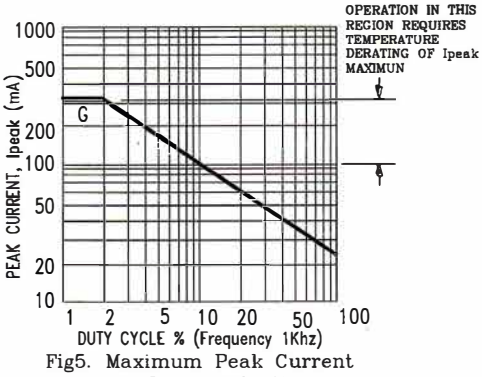

Fig5. Maximum Peak Current vs. Duty Cycle %

NOTE: G=GREEN.

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