



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

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)**

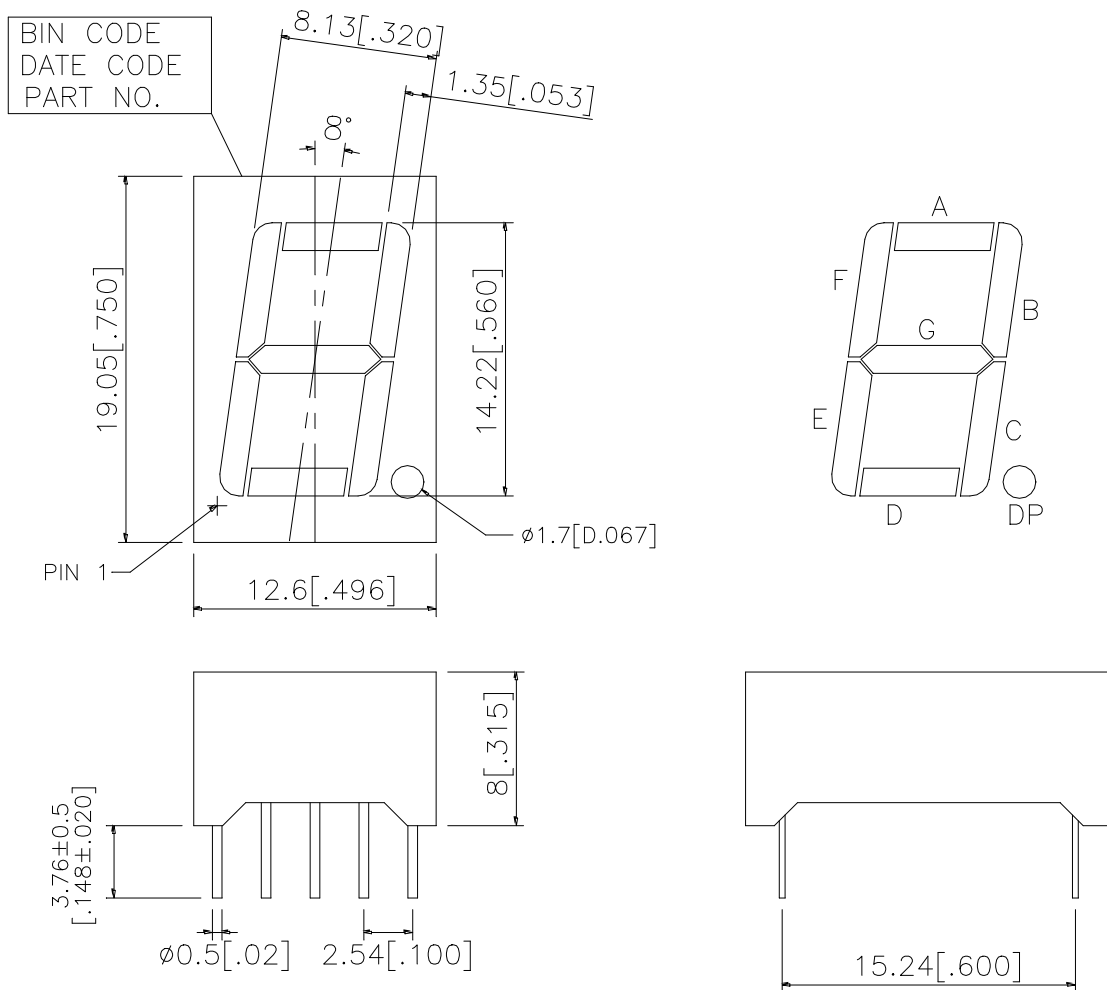
DESCRIPTION

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 white segments.

DEVICE

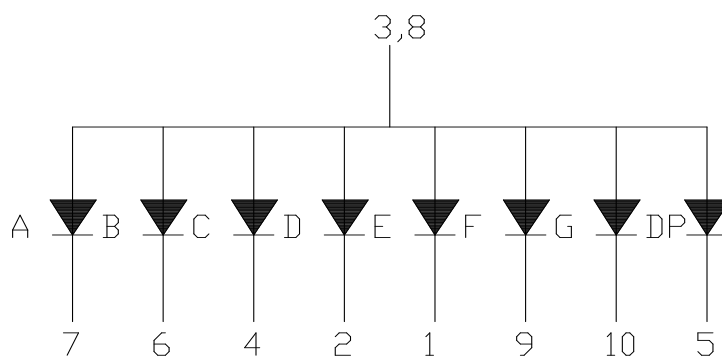
| PART NO. | DESCRIPTION |
|-----------------|--------------------|
| GREEN | Common Anode |
| LTS-6460G | Rt. Hand Decimal |

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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 |

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 +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

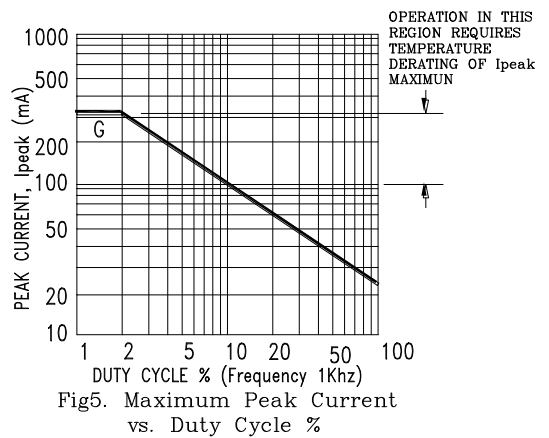
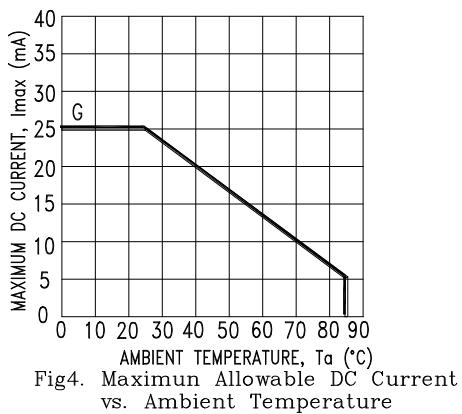
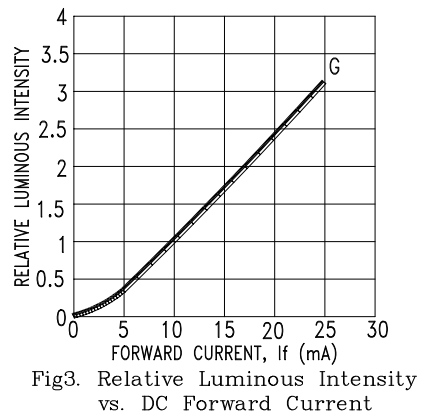
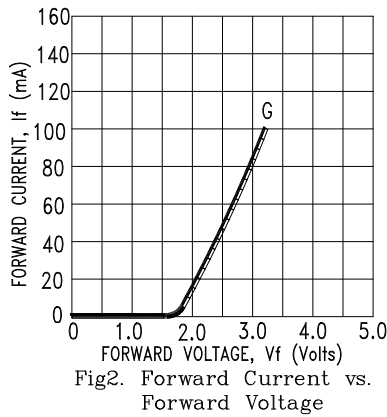
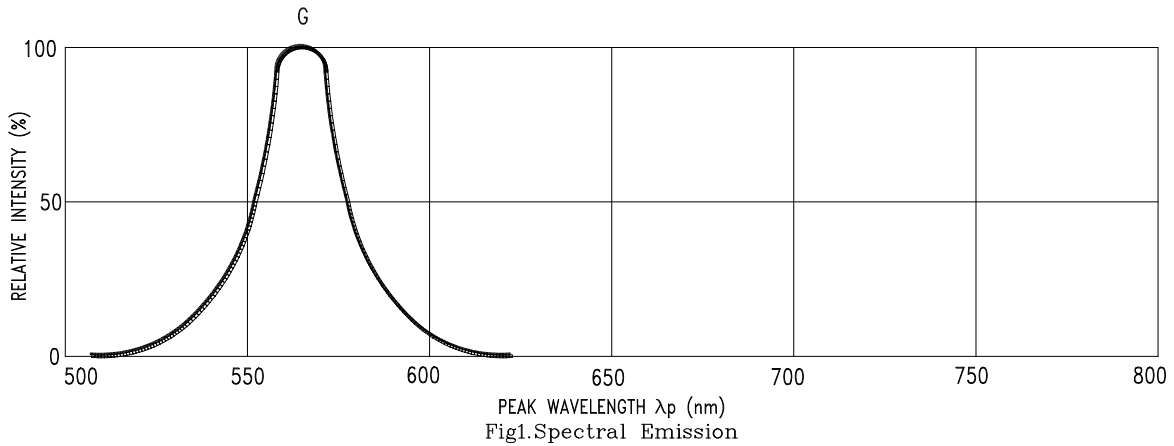
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25⁰C

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|---|------------------|------|------|------|------|----------------------|
| Average Luminous Intensity | I _v | 870 | 2400 | | 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'Eclariage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE: G=GREEN.

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