



# LED Display Product Data Sheet LTS-5324G

Spec No.: DS30-2002-233

Effective Date: 06/18/2010

Revision: A

**LITE-ON DCC**

**RELEASE**

BNS-OD-FC001/A4

## **FEATURES**

- \* 0.56 inch (14.25 mm ) DIGIT HEIGHT
- \* EXCELLENT SEGMENT UNIFORMITY
- \* LOW POWER REQUIREMENT
- \* HIGH BRIGHTNESS AND HIGH CONTRAST
- \* WIDE VIEWING ANGLE
- \* SOLID STATE RELIABILITY
- \* BINNED FOR LUMINOUS INTENSITY

## **DESCRIPTION**

The LTS-5324G is a 0.56 inch (14.25 mm) digit height single digit display. This device uses GREEN LED chips (GaP epi on GaP substrate). The display has black face and white segments.

## **DEVICE**

| <b>PART NO.</b> | <b>DESCRIPTION</b> |
|-----------------|--------------------|
| GREEN           | Common Cathode     |
| LTS-5324G       | Rt. Hand Decimal   |



**PIN CONNECTION**

| <b>No</b> | <b>CONNECTION</b> |
|-----------|-------------------|
| 1         | Anode E           |
| 2         | Anode D           |
| 3         | Common Cathode    |
| 4         | Anode C           |
| 5         | Anode DP          |
| 6         | Anode B           |
| 7         | Anode A           |
| 8         | Common Cathode    |
| 9         | Anode F           |
| 10        | Anode G           |

**ABSOLUTE MAXIMUM RATING**

| PARAMETER  | MAXIMUM RATING                           | UNIT               |
|--|--|--------------------|
| Power Dissipation Per Segment  | 75                                       | mW                 |
| Peak Forward Current Per Segment<br>( Frequency 1Khz, 10% duty cycle)                    | 100*                                     | mA                 |
| Continuous Forward Current Per Segment   | 25                                       | mA                 |
| Forward Current Derating from 25 <sup>0</sup> C  | 0.33                                     | mA/ <sup>0</sup> C |
| Reverse Voltage Per Segment  | 5  | V                  |
| Operating Temperature Range  | -35 <sup>0</sup> C to +85 <sup>0</sup> C |                    |
| Storage Temperature Range  | -35 <sup>0</sup> C to +85 <sup>0</sup> C |                    |
| Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 <sup>0</sup> C |  |                    |

\* see figure 5 to establish pulsed condition

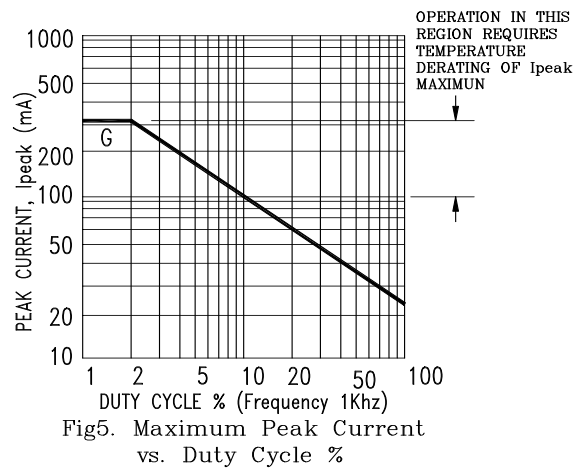
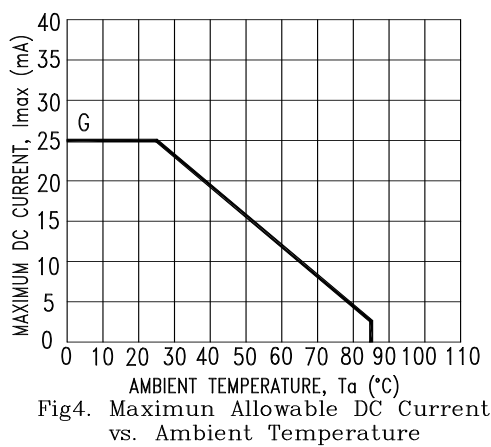
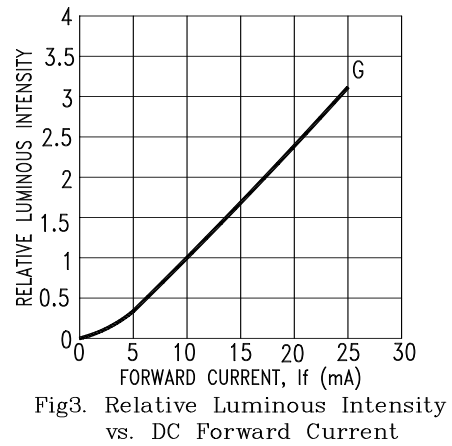
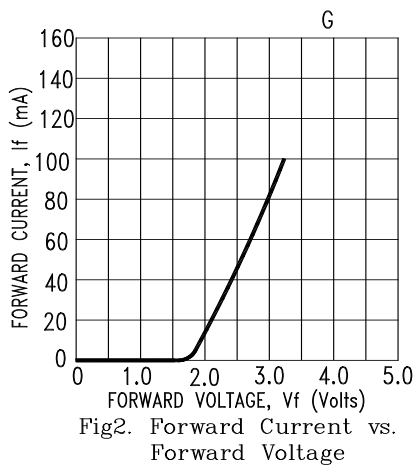
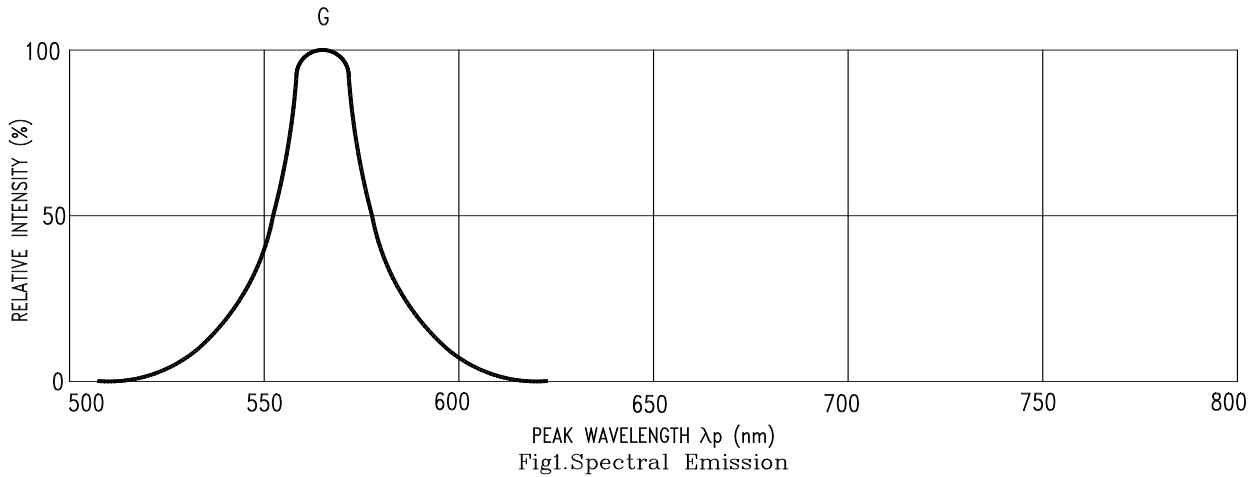
**ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25<sup>0</sup>C**

| PARAMETER                              | SYMBOL            | MIN | TYP  | MAX   | UNIT | TEST CONDITION        |
|--|-------------------|-----|------|-------|------|-----------------------|
| Average Luminous Intensity Per Segment | I <sub>v</sub>    | 800 | 2400 |       | μcd  | I <sub>F</sub> = 10mA |
| Peak Emission Wavelength               | λ <sub>p</sub>    |     | 565  |       | nm   | I <sub>F</sub> = 20mA |
| Spectral Line Half-Width               | Δλ                |     | 30   |       | nm   | I <sub>F</sub> = 20mA |
| Dominant Wavelength                    | λ <sub>d</sub>    |     | 569  |       | nm   | I <sub>F</sub> = 20mA |
| Forward Voltage Per Segment            | V <sub>F</sub>    |     | 2.1  | 2.6   | V    | I <sub>F</sub> = 20mA |
| Reverse Current Per Segment            | I <sub>R</sub>    |     |      | 100   | μA   | V <sub>R</sub> = 5V   |
| Luminous Intensity Matching Ratio      | I <sub>v</sub> -m |     |      | 2 : 1 |      | I <sub>F</sub> = 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)



NOTE: G=GREEN.