

FEATURES

- * 0.56 inch (14.2 mm) DIGIT HEIGHT
- * CONTINUOUS UNIFORM SEGMENTS
- * LOW POWER REQUIREMENT
- * EXCELLENT CHARACTERS APPEARANCE
- * HIGH BRIGHTNESS & HIGH CONTRAST
- * WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY

DESCRIPTION

The LTC-5630G-03 is a 0.56 inch (14.2 mm) digit height quadruple 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 | Multiplex Common Anode |
| LTC-5630G-03 | |

PIN CONNECTION

| No. | CONNECTION |
|------------|------------------------|
| 1 | CATHODE E |
| 2 | CATHODE D |
| 3 | CATHODE D.P.1 & D.P.2 |
| 4 | CATHODE C |
| 5 | CATHODE G |
| 6 | COMMON ANODE (DIGIT 4) |
| 7 | CATHODE B |
| 8 | COMMON ANODE (DIGIT 3) |
| 9 | COMMON ANODE (DIGIT 2) |
| 10 | CATHODE F |
| 11 | CATHODE A |
| 12 | COMMON ANODE (DIGIT 1) |

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/ |
| Reverse Voltage Per Segment | 8 | V |
| Operating Temperature Range | -35 to +85 | |
| Storage Temperature Range | -35 to +85 | |
| Soldering Conditions: 1/16 inch below eating plane for 3 seconds at 260 ⁰ C. | | |

*See figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25⁰C

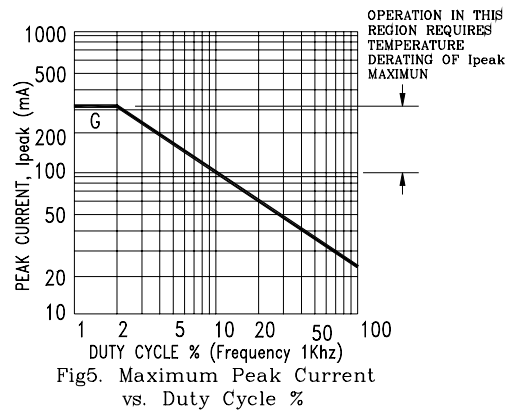
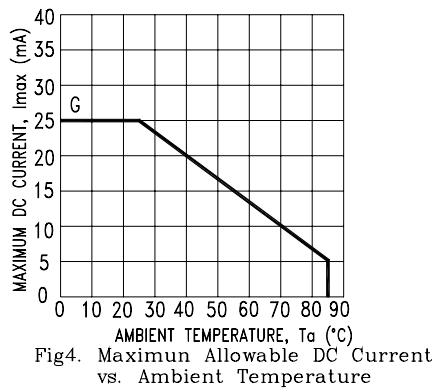
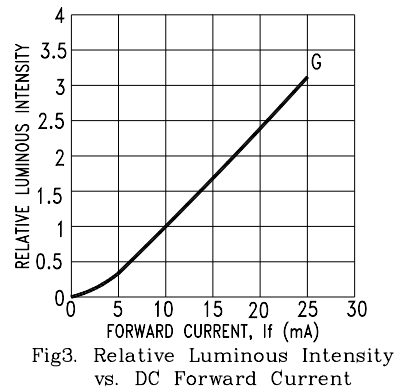
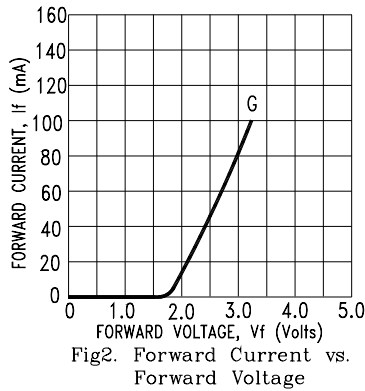
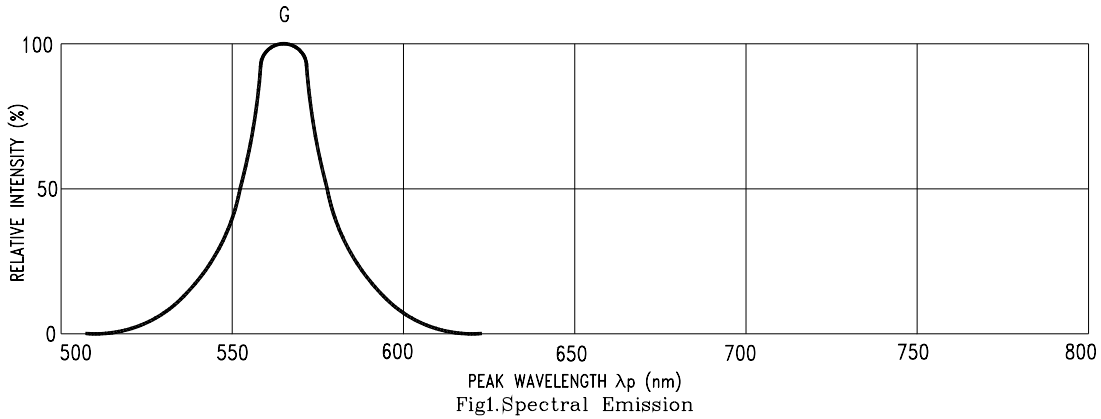
| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|-----------------------------------|-------------------|------|------|------|------|----------------------|
| Average Luminous Intensity | I _v | 800 | 2400 | | μcd | I _F =10mA |
| Peak Emission Wavelength | λ _p | | 565 | | nm | I _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 | | | 2 | μA | V _R =8V |
| Luminous Intensity Matching Ratio | 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.

(V_R=8V, I_R=2μA is based on basic load)

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE: G=GREEN.