

FEATURES

- * 0.28 inch (7.0 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)**

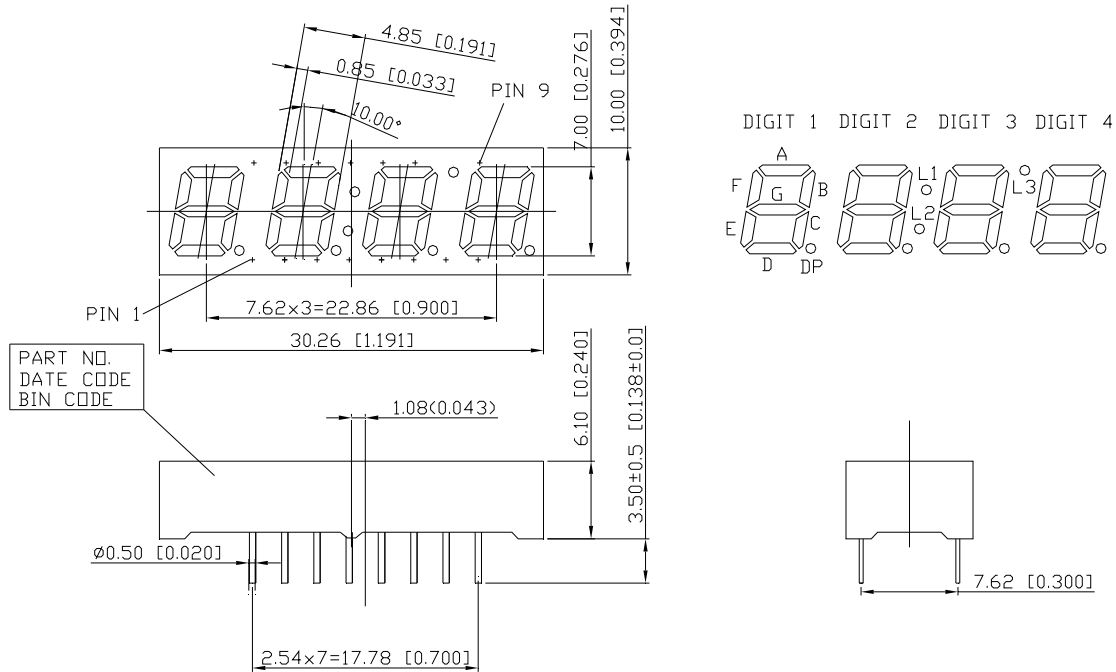
DESCRIPTION

The LTC-2623E-02 is a 0.28 inch (7.0 mm) digit height quadruple digit seven-segment display. This device utilizes red orange LED chips (GaAsP on GaP Substrate). The display has a gray face and white segments.

DEVICE

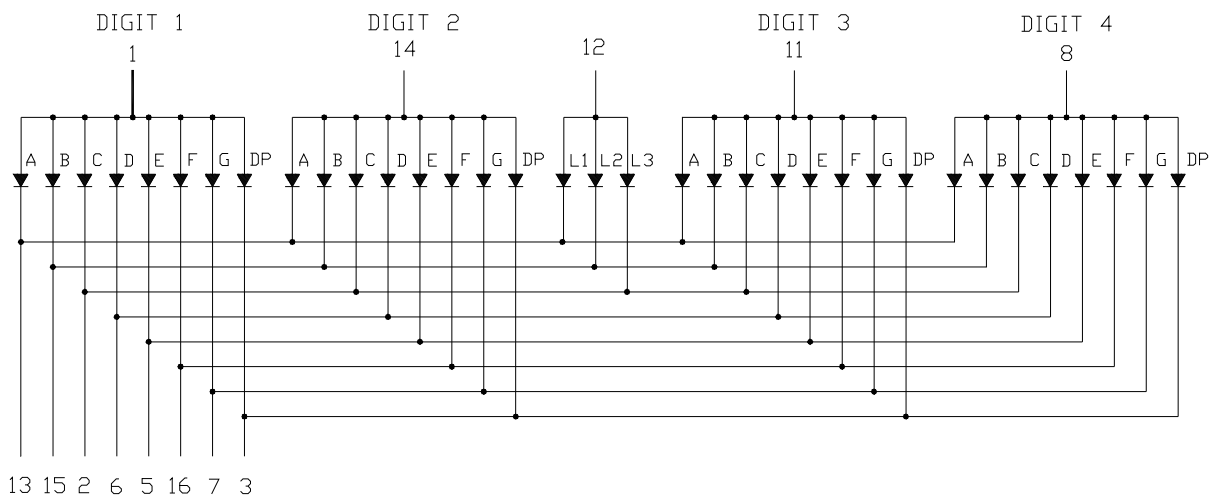
| PART NO. | DESCRIPTION |
|-----------------|------------------------|
| Red Orange | Multiplex Common Anode |
| LTC-2623E-02 | Rt. Hand Decimal |

PACKAGE DIMENSIONS



- NOTES: 1. All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.
 2. Pin tip's shift tolerances is ± 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

| NO | CONNECTION |
|----|-------------------------|
| 1 | COMMON ANODE DIGIT 1 |
| 2 | CATHODE C,L3 |
| 3 | CATHODE DP |
| 4 | NO CONNECTION |
| 5 | CATHODE E |
| 6 | CATHODE D |
| 7 | CATHODE G |
| 8 | COMMON ANODE DIGIT 4 |
| 9 | NO CONNECTION |
| 10 | NO PIN |
| 11 | COMMON ANODE DIGIT 3 |
| 12 | COMMON ANODE L1, L2, L3 |
| 13 | CATHODE A,L1 |
| 14 | COMMON ANODE DIGIT 2 |
| 15 | CATHODE B,L2 |
| 16 | CATHODE F |

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 |
| Derating Linear From 25°C Per Segment | 0.28 | mA/°C |
| Reverse Voltage Per Segment | 5 | V |
| Operating Temperature Range | -35°C to +105°C | |
| Storage Temperature Range | -35°C to +105°C | |
| Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane. | | |

* see figure 5 to establish pulsed condition

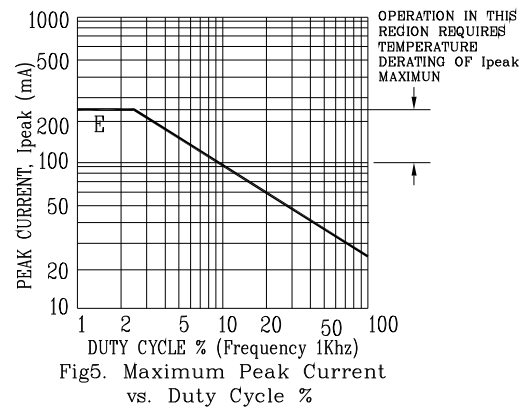
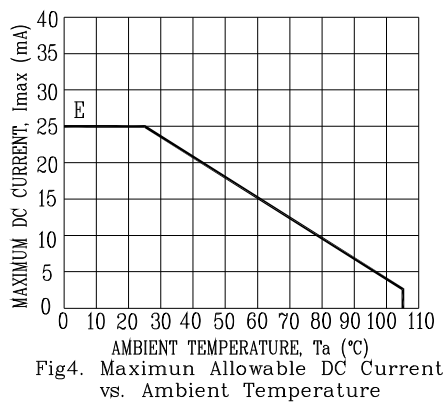
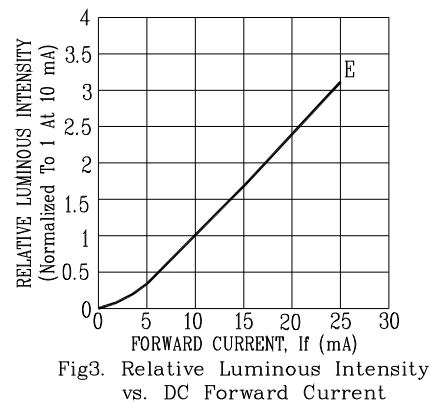
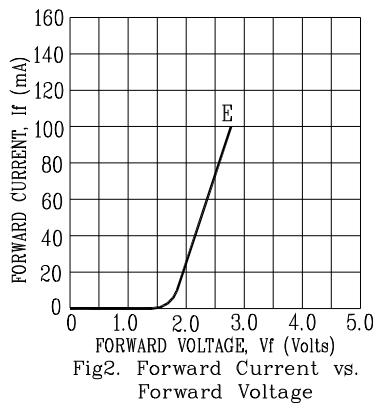
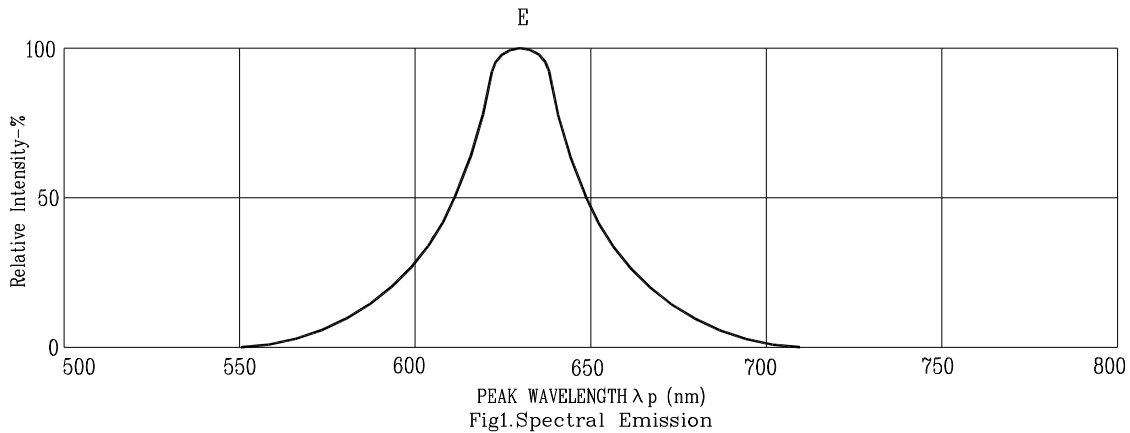
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|--|------------------|------|------|------|------|----------------------|
| Average Luminous Intensity | I _v | 800 | 2000 | | μcd | I _F =10mA |
| Peak Emission Wavelength | λ _p | | 630 | | nm | I _F =20mA |
| Spectral Line Half-Width | Δλ | | 40 | | nm | I _F =20mA |
| Dominant Wavelength | λ _d | | 621 | | 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 (Same 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)



NOTE: E=RED ORANGE