

**FEATURES**

- \* 0.39 inch (10.0 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)**

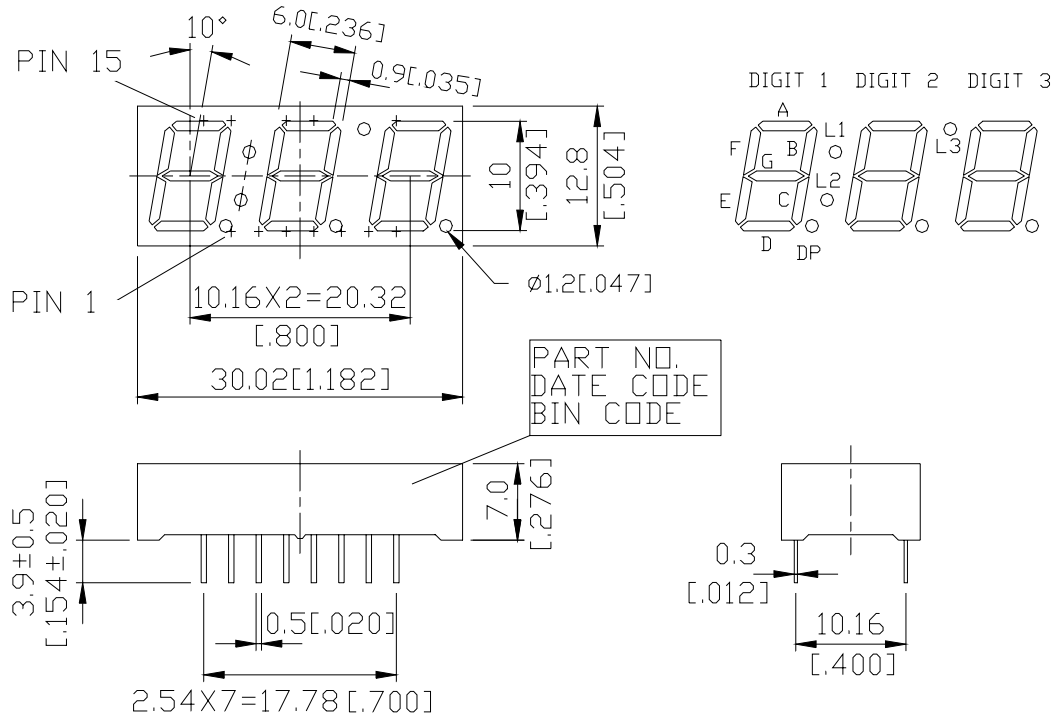
**DESCRIPTION**

The LTC-4624WC-03T is a 0.39 inch (10.0 mm) digit height triple digit seven-segment display. This device uses AlGaAs RED LED chips (AlGaAs epi on GaAs substrate). The display has gray face and white segments. This low current seven-segment display is designed to perform under low power consumption. It is tested and selected for its excellent low current characteristics. It can be driven in low current condition and the segments are matched. This driving current as low as 1mA per segment is applicable.

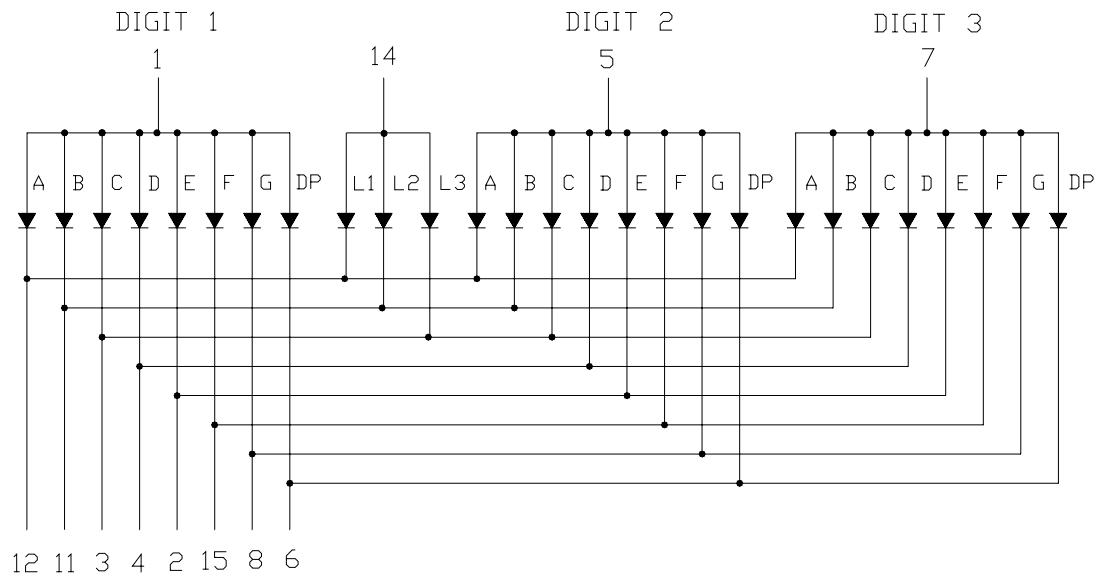
**DEVICE**

<b>PART NO.</b>	<b>DESCRIPTION</b>
AlGaAs Red	Multiplex Common Anode
LTC-4624WC-03T	Rt. Hand Decimal

## PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are  $\pm 0.25$  mm (0.01") unless otherwise noted.

**INTERNAL CIRCUIT DIAGRAM**

**PIN CONNECTION**

<b>No</b>	<b>CONNECTION</b>
1	COMMON ANODE DIGIT 1
2	CATHODE E
3	CATHODE C, L3
4	CATHODE D
5	COMMON ANODE DIGIT 2
6	CATHODE D.P.
7	COMMON ANODE DIGIT 3
8	CATHODE G
9	NO PIN
10	NO PIN
11	CATHODE B, L2
12	CATHODE A, L1
13	NO PIN
14	COMMON ANODE L1,L2,L3
15	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 )	125*	mA
Continuous Forward Current Per Segment	30	mA
Forward Current Derating from 25 <sup>0</sup> C	0.4	mA/
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 to +105	
Storage Temperature Range	-35 to +105	
Soldering Conditions : 1/16 inch below seating plane for 8 seconds at 265 <sup>0</sup> C		

\* see figure 5 to establish pulsed condition

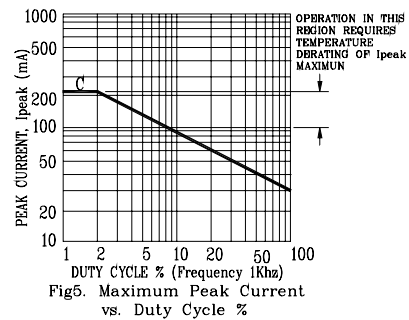
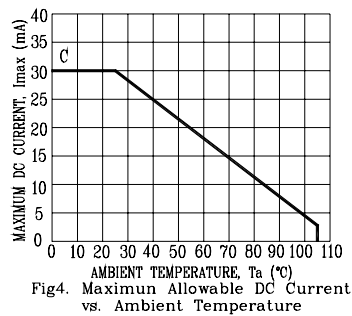
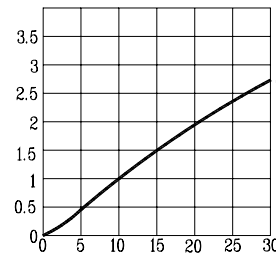
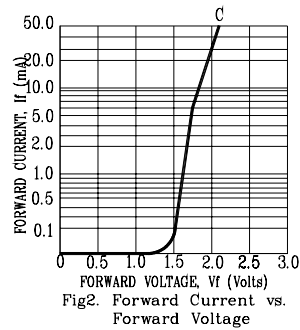
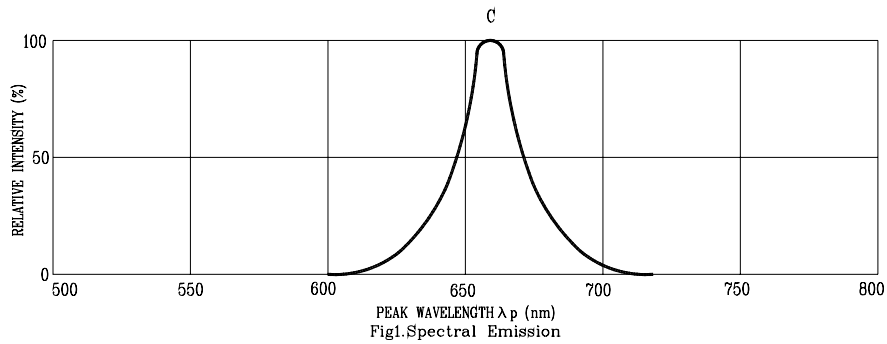
**ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25<sup>0</sup>C**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segmen	I <sub>v</sub>	200	650		μcd	I <sub>F</sub> =1mA
			3400		μcd	I <sub>F</sub> =5mA
Peak Emission Wavelength	λ <sub>p</sub>		660		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		35		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		638		nm	I <sub>F</sub> =20mA
Forward Voltage Per Segment	V <sub>F</sub>		1.6	2.4	V	I <sub>F</sub> =1mA
			1.7			I <sub>F</sub> =5mA
			1.8			I <sub>F</sub> =20mA
Reverse Current Per Segment	I <sub>R</sub>			8	μA	V <sub>R</sub> =8V
Luminous Intensity Matching Ratio	I <sub>v</sub> -m			1.6:1		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: C=AlGaAs RED