

**FEATURES**

- \* 0.4 inch (10 mm) DIGIT HEIGHT
- \* CONTINUOUS UNIFORM SEGMENTS
- \* LOW POWER REQUIREMENT
- \* EXCELLENT CHARACTERS APPEARANCE
- \* HIGH BRIGHTNESS & HIGH CONTRAST
- \* WIDE VIEWING ANGLE
- \* SOLID STATE RELIABILITY

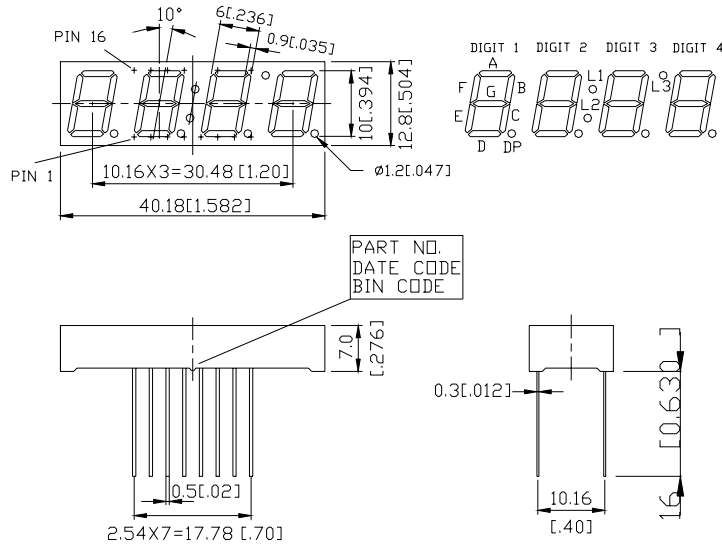
**DESCRIPTION**

The LTC-4627P-22 is a 0.4 inch (10 mm) digit height quadruple digit seven-segment display. This device uses BRIGHT RED LED chips (GaP epi on GaP substrate).The display has gray face and white segments.

**DEVICE**

<b>PART NO.</b>	<b>DESCRIPTION</b>
Bright Red	Multiplex Common Anode Rt. Hand Decimal
LTC-4627P-22	

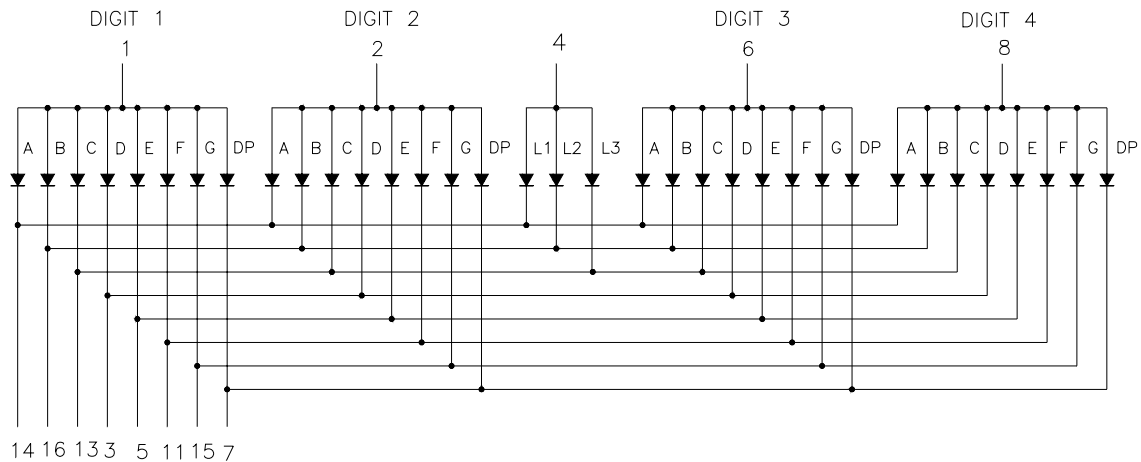
## PACKAGE DIMENSIONS



- Add protective film in display.
- Protective film specification
  1. Dimensions: 13x 40.18mm
  2. Material: PE
  3. Temp. Range: -5~50 degree C.

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

**ABSOLUTE MAXIMUM RATING**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	40	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle )	60*	mA
Continuous Forward Current Per Segment	15	mA
Forward Current Derating from 25 <sup>0</sup> C	0.2	mA/
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 to +85	
Storage Temperature Range	-35 to +85	
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 <sup>0</sup> C.		

\* see figure 5 to establish pulsed condition

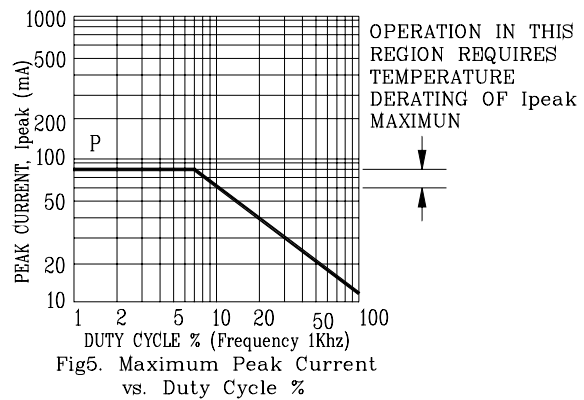
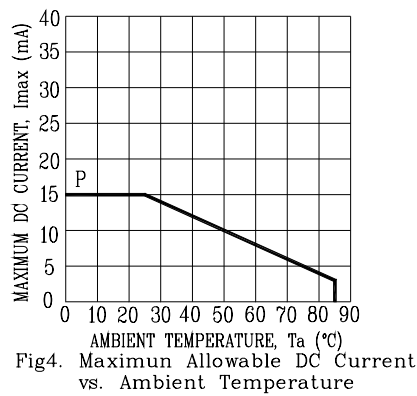
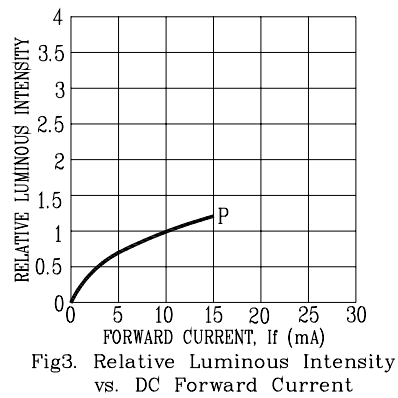
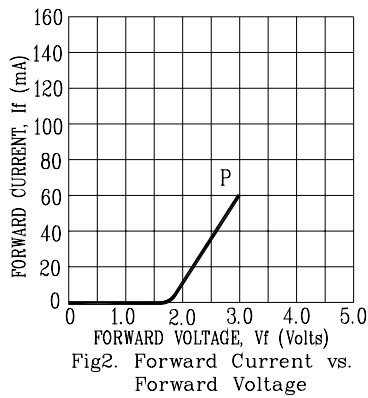
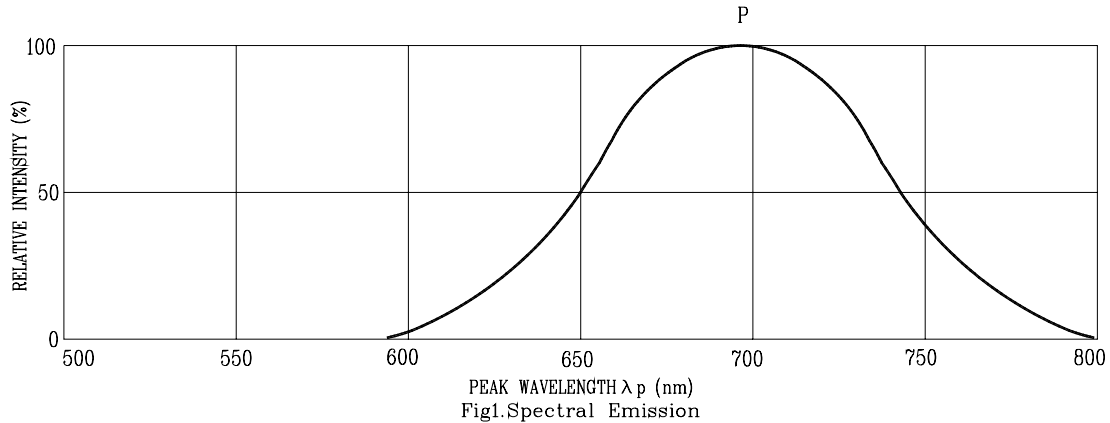
**ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25<sup>0</sup>C**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	I <sub>v</sub>	320	800		μcd	I <sub>F</sub> =10mA
Peak Emission Wavelength	λ <sub>p</sub>		697		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		90		nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		657		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 : P=BRIGHT RED