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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 is a 0.4 inch (10 mm) digit height quadruple digit seven-segment display. This device utilizes bright red LED chips, which are made from GaP on a transparent GaP substrate, and has a gray face and white segments.

DEVICE

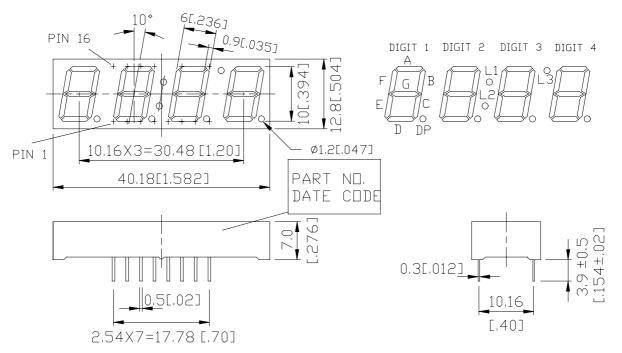
PART NO.	DESCRIPTION			
Bright Red	Multiplex Common Anode			
LTC-4627P	Rt. Hand Decimal			

PART NO.: LTC-4627P PAGE: 1 of 5

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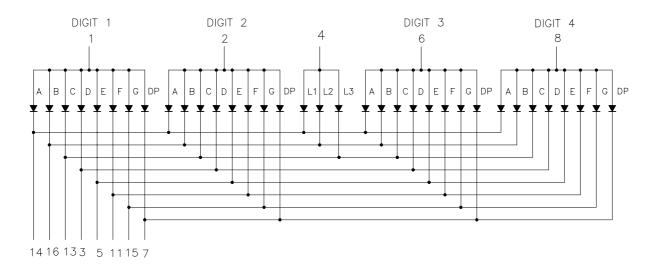
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTC-4627P PAGE: 2 of 5



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PIN CONNECTION

NO	CONNECTION				
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				

3 of 5 PAGE: PART NO.: LTC-4627P



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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	40	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA			
Continuous Forward Current Per Segment	15	mA			
Derating Linear From 25°C Per Segment	0.2	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

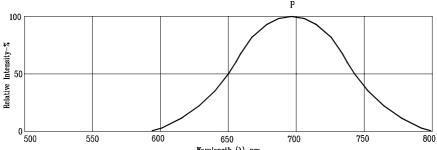
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	800		μcd	I _F =10mA
Peak Emission Wavelength	λр		697		nm	I _F =20mA
Spectral Line Half-Width	Δλ		90		nm	I _F =20mA
Dominant Wavelength	λd		657		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

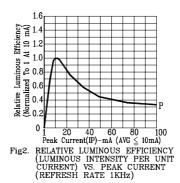
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

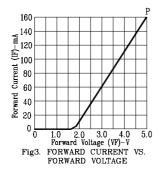
PART NO.: LTC-4627P PAGE: 4 of 5

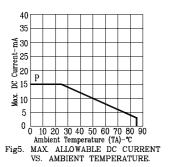
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

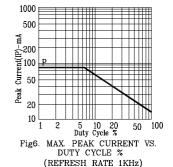








minous Intensity 1 To 1 At 10 mA) 2 2 2 2 00 5 10 15 20 25 30
Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: P=BRIGHT RED

PAGE: PART NO.: LTC-4627P 5 of 5