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BNS-OD-FC001/A4

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FEATURES

* 0.4 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.

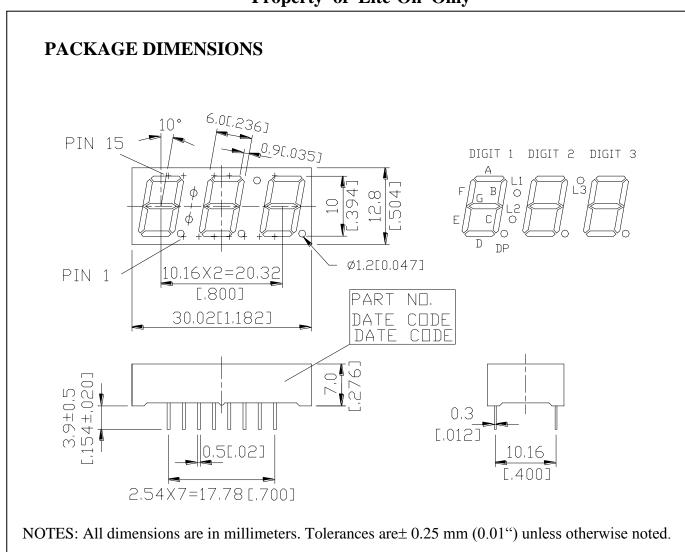
DESCRIPTION

The LTC-4724WC is a 0.4 inch (10.0 mm) digit height triple digit seven-segment display. This device utilizes AlGaAs red LED chips, which are made from AlGaAs on a non-transparent GaAs substrate, and has a gray face and white segments. The AlGaAs red seven segment displys are designed for applications requiring low power consumption. They are tested and selected for the excellent low current characteristics to ensure that the segments are matched matched at low current. Drive current as low as 1 mA per segment is available.

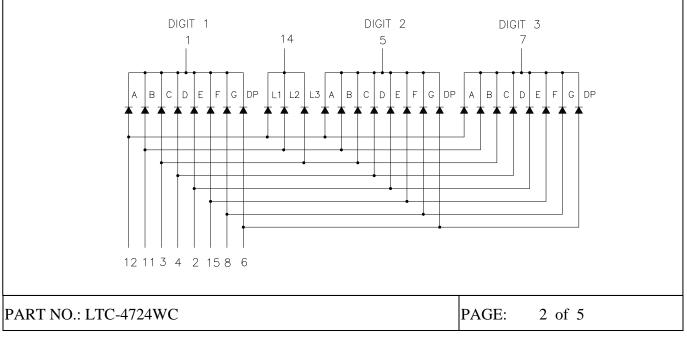
DEVICE

PART NO.	DESCRIPTION
AlGaAs Red	Multiplex Common Cathode
LTC-4724WC	Rt. Hand Decimal

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INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Power Dissipation Per Segment	75	mW		
Peak Forward Current Per Segment	125	mA		
(1/10 Duty Cycle, 0.1ms Pulse Width)	125	mA		
Continuous Forward Current Per Segment	30	mA		
Derating Linear From 25°C Per Segment	0.4	mA/°C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	ag Temperature Range -35° C to $+85^{\circ}$ C			
Storage Temperature Range -35° C to $+85^{\circ}$ 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		
· · · · ·	Ŧ	200	650		μcd	IF=1mA		
Average Luminous Intensity	Iv	200	00 2750 μcd		IF=5mA			
Peak Emission Wavelength	λp		660		nm	IF=20mA		
Spectral Line Half-Width	Δλ		35		nm	IF=20mA		
Dominant Wavelength	λd		638		nm	IF=20mA		
			1.6	2.4				IF=1mA
Forward Voltage Per Segment	V_{F}		1.7		V	IF=5mA		
			1.8			IF=20mA		
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V		
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

