



Spec No.: DS30-2000-185 Effective Date: 01/22/2010

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.4inch (10.0mm) 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-4627JR is a 0.4 inch (10.0 mm) digit height quadruple digit seven-segment display. This device utilizes AlInGaP super red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

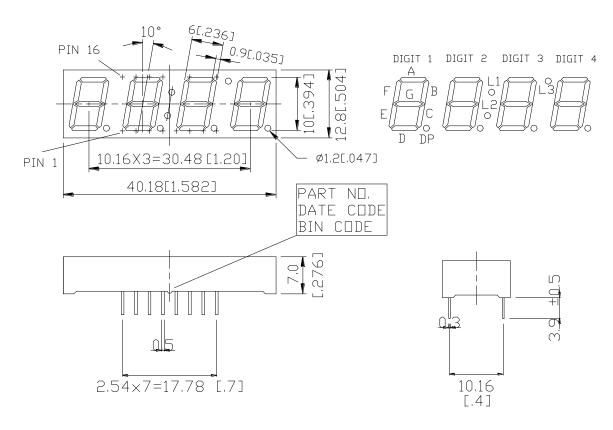
DEVICE

PART NO.	DESCRIPTION			
AlInGaP Super Red	Multiplex Common Anode			
LTC-4627JR	Rt. Hand Decimal			

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PACKAGE DIMENSIONS



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

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INTERNAL CIRCUIT DIAGRAM DIGIT 1 DIGIT 2 DIGIT 3 DIGIT 4 A B C D E F G DP A B C D E F G DP L1 L2 L3 A B C D E F G DP A B C D E F G DP 14 16 13 3 5 11 15 7 PART NO.: LTC-4627JR PAGE: 3 of 6

BNS-OD-C131/A4

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PIN CONNECTION

210	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			

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	70	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	90	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25°C Per Segment	0.33	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

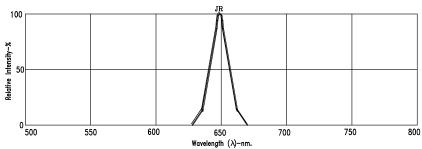
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	650		μcd	I _F =1mA
Peak Emission Wavelength	λр		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		631		nm	I _F =20mA
Forward Voltage Per Segment	V_{F}		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =1mA

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

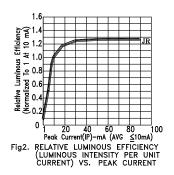
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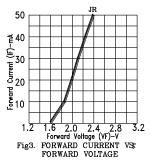
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

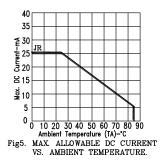
(25°C Ambient Temperature Unless Otherwise Noted)

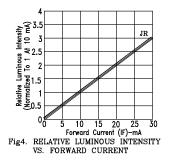


Wavelength (1)-nm.
Fig1. RELATIVE INTENSITY VS. WAVELENGTH









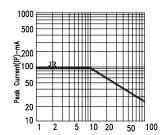


Fig6. MAX. PEAK CURRENT VS.
DUTY CYCLE %
(REFRESH RATE 1KHz)

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