



Spec No.: DS30-2001-256Effective Date: 10/04/2002

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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FEATURES

- *0.56 inch (14.2 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-5723JD is a 0.56 inch (14.2 mm) digit height quadruple digit seven-segment display. This device utilizes AlInGaP hi-eff. red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

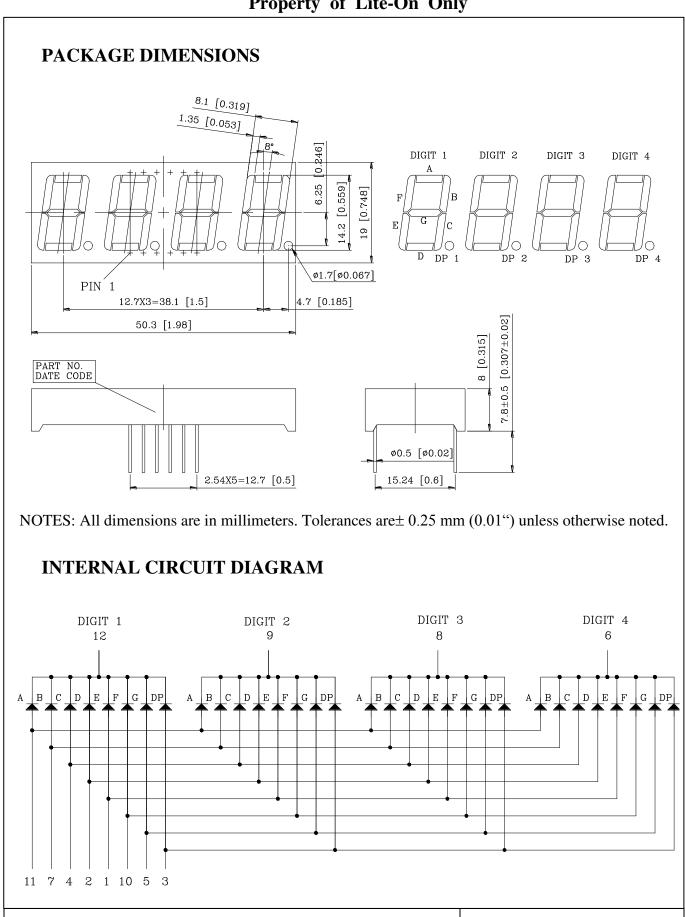
DEVICE

PART NO.	DESCRIPTION			
AlInGaP HI-EFF. Red	Multiplex Common Cathode			
LTC-5723JD	Rt. Hand Decimal			

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PIN CONNECTION

No.	CONNECTION
1	ANODE E
2	ANODE D
3	ANODE D.P.
4	ANODE C
5	ANODE G
6	COMMON CATHODE (DIGIT 4)
7	ANODE B
8	COMMON CATHODE (DIGIT 3)
9	COMMON CATHODE (DIGIT 2)
10	ANODE F
11	ANODE A
12	COMMON CATHODE (DIGIT 1)

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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	0.28	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

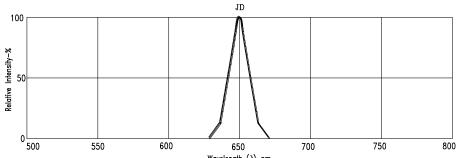
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	340	700		μcd	I _F =1mA
Peak Emission Wavelength	λр		650		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		639		nm	I _F =20mA
			2.1	2.6		I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =1mA

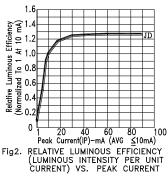
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

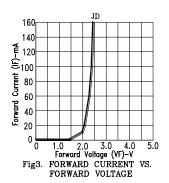
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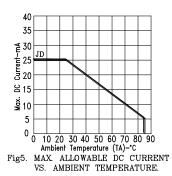
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)









JD Normalized 1.5 Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT

1000 500 Current(IP)-mA 100 20 Peak 10 5 10 20 50

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

NOTE: JD=AlInGaP HYPER RED

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