



Spec No.: DS30-2001-193 Effective Date: 06/12/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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FEATURE

- *0.28 inch (7 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-2723JS is a 0.28 inch (7 mm) digit height quadruple digits seven-segment display. This device utilizes AlInGaP yellow LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white segment.

DEVICE

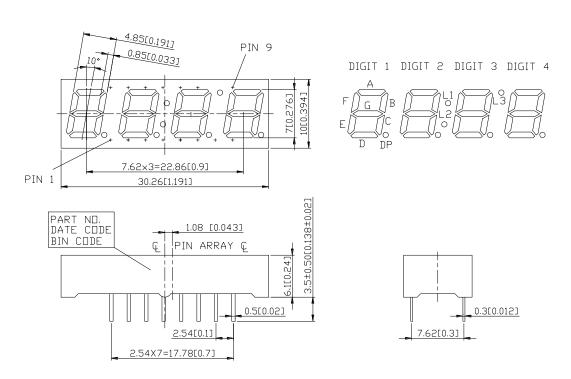
PART NO.	DESCRIPTION		
AlInGaP Yellow	Multiplex Common Cathode		
LTC-2723JS	Rt. Hand Decimal		

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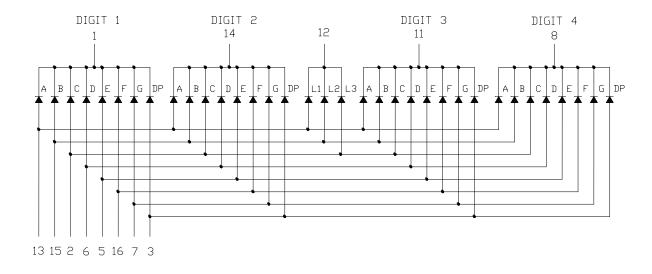
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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ABSOLUTE MAXIMUM RATING AT T_A=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)	60	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 ^o C Per Segment	0.33	mA/ ⁰ C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+85^{\circ}$ C				
Storage Temperature Range	-35° C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT $T_A=25^{\circ}C$

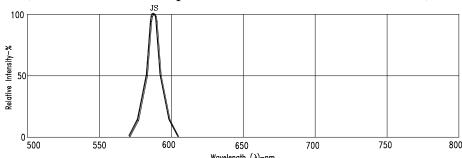
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	600		μcd	I _F =1mA
Peak Emission Wavelength	λр		588		nm	IF=20mA
Spectral Line Half-Width	Δλ		15		nm	I _F =20mA
Dominant Wavelength	λd		587		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.05	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =1mA

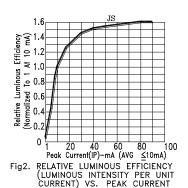
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

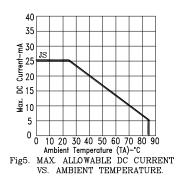
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)







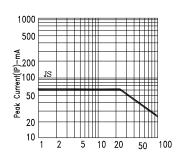


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

 ${\tt NOTE} \; : \; {\tt JS=AlInGaP} \; \; {\tt YELLOW}$

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