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BNS-OD-FC001/A4

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FEATURES

* 0.28 inch (7.0 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-2723JD is a 0.28 inch (7.0 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 HIEFF. RED	Multiplex Common Cathode			
LTC-2723JD	Rt. Hand Decimal			

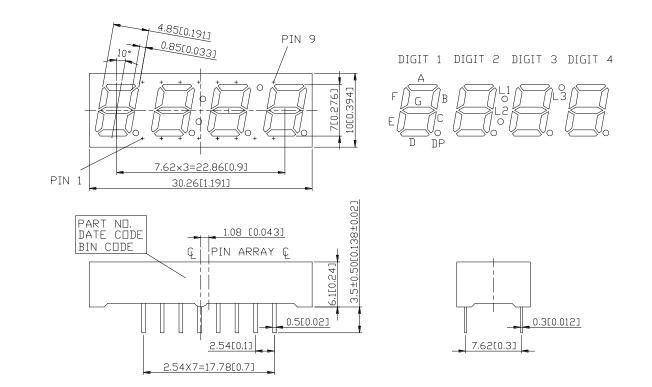
PART NO.: LTC-2723JD



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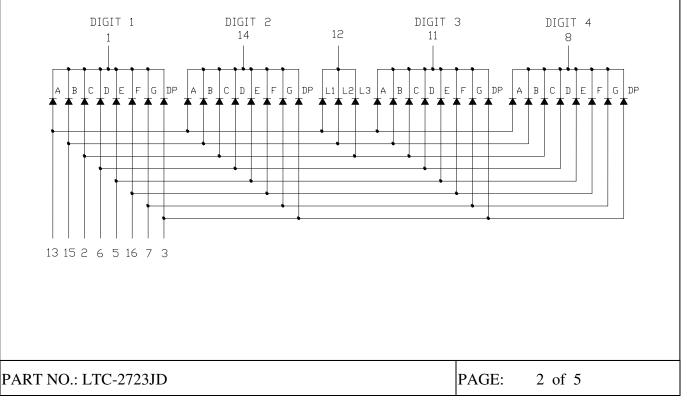
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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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		

PART NO.: LTC-2723JD

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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)	100	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25 ⁰ 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 $-35^{\circ}C$ to $+85^{\circ}C$					
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ^o C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

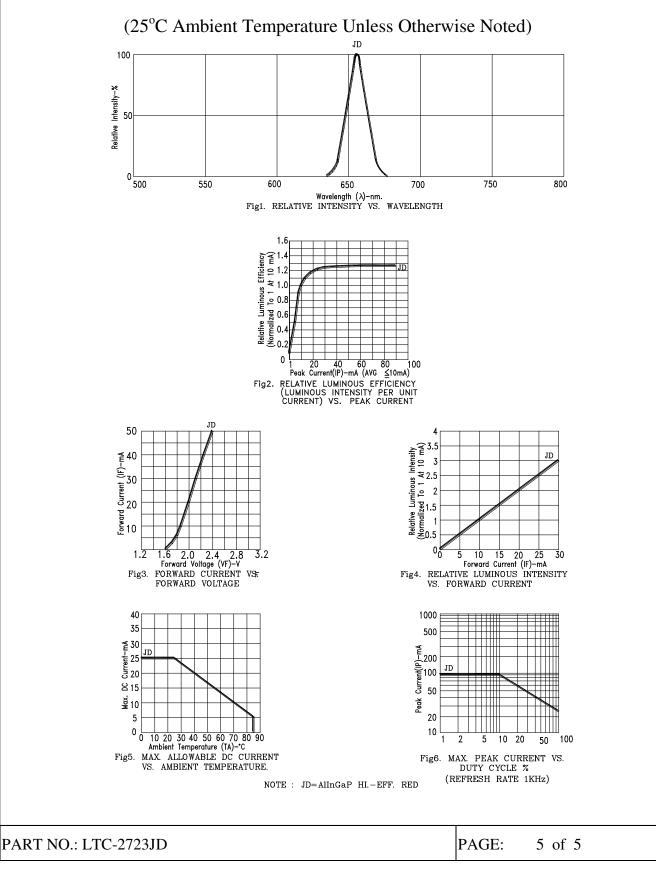
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	200	600		μcd	IF=1mA
Peak Emission Wavelength	λp		656		nm	IF=20mA
Spectral Line Half-Width	Δλ		22		nm	IF=20mA
Dominant Wavelength	λd		640		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			10	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



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