



LED Display

Product Data Sheet

LTC-2721JD

Spec No.: DS30-2000-423

Effective Date: 10/29/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

FEATURES

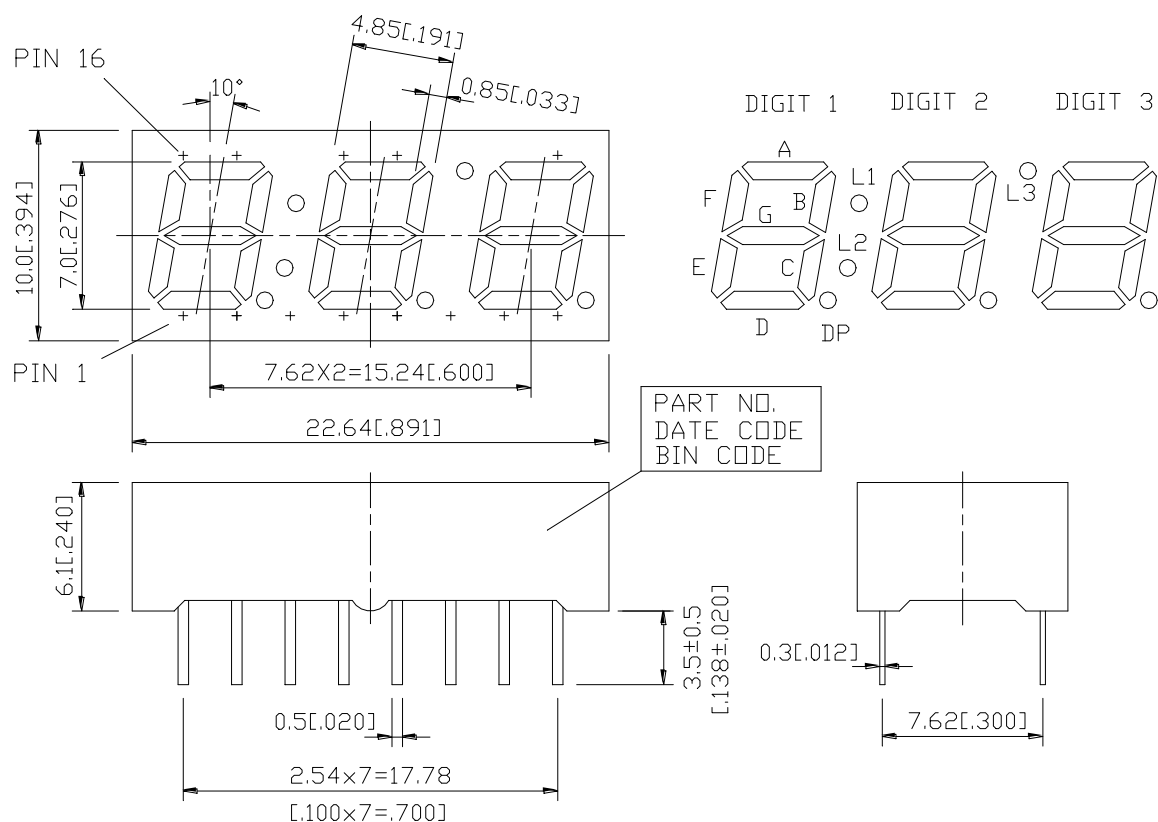
- * 0.28 inch (7 mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

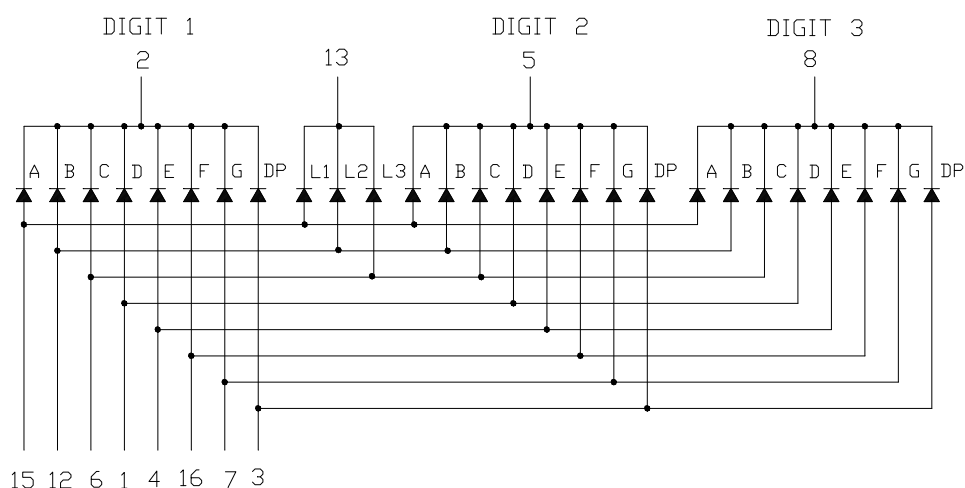
The LTC-2721JD is a 0.28 inch (7 mm) digit height triple digit seven-segment display. This device utilizes AlInGap high efficiency Red LED chips, which are made from AlInGap on a non-transparent GaAs substrate, and has a gray face and white segments.

DEVICE

PART NO.	DESCRIPTION
AlInGap Hi-Eff. RED	Multiplex Common Cathode Rt. Hand Decimal
LTC-2721JD	

PACKAGE DIMENSIONS


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

INTERNAL CIRCUIT DIAGRAM


PIN CONNECTION

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

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.		

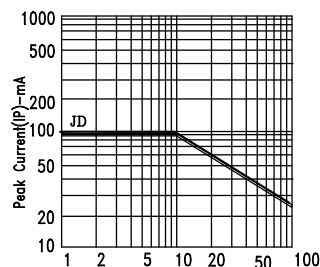
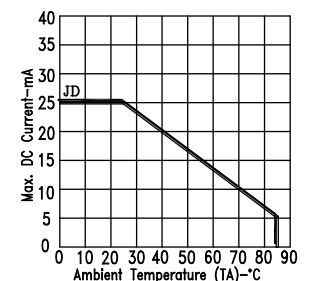
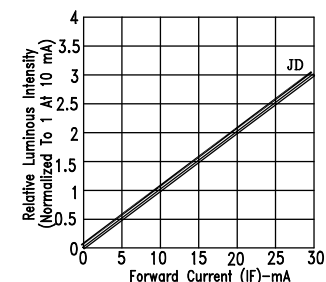
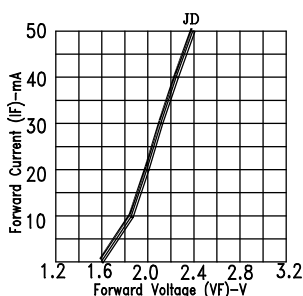
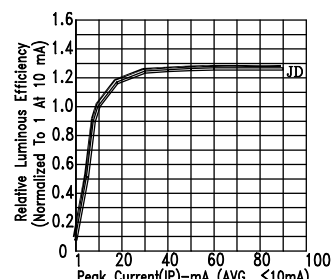
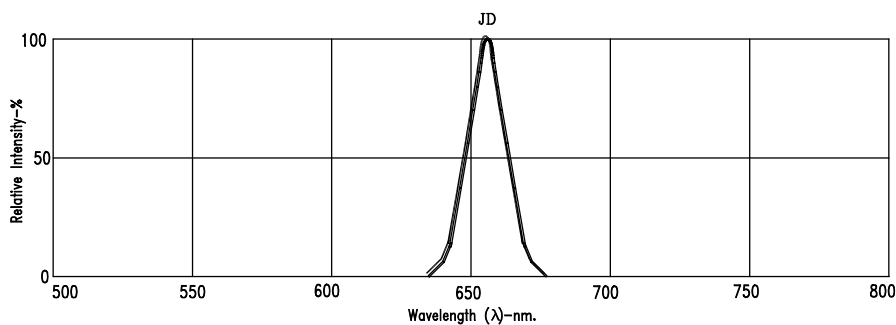
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	200	600		μcd	I _F =1mA
Peak Emission Wavelength	λ _p		656		nm	I _F =20mA
Spectral Line Half-Width	Δλ		22		nm	I _F =20mA
Dominant Wavelength	λ _d		640		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -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.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE : JD=AlInGaP HI.-EFF. RED