

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

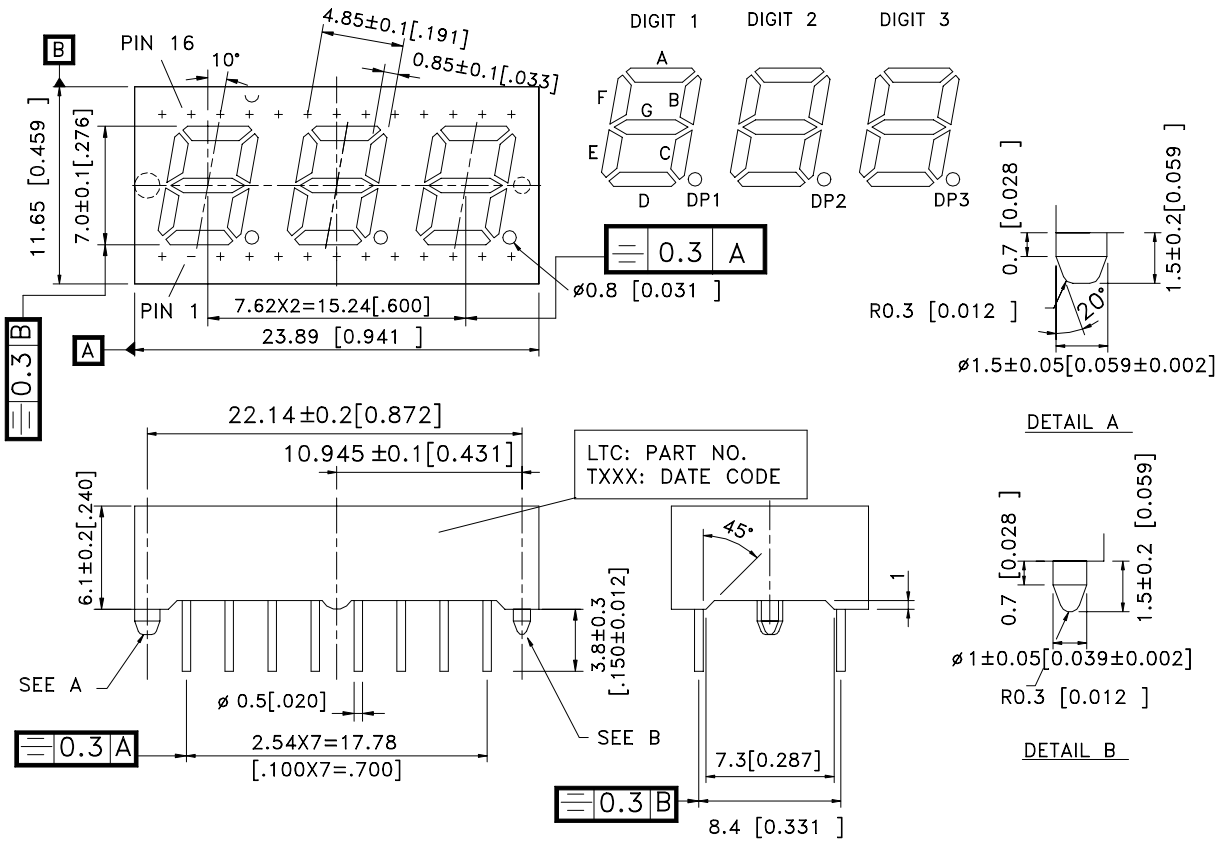
The LTC-2624JD is a 0.28 inch (7.0 mm) digit height triple digit seven-segment display. This device utilizes AllnGaP hi.-eff. red LED chips, which are made from AllnGaP on a non-transparent GaAs substrate, and has a gray face and white segments.

This low current seven-segment display is designed to perform under low power consumption. It is tested and selected for it's excellent low current characteristics. It can be driven in low current condition and the segments are matched. This driving current as low as 1mA per segment is applicable.

DEVICE

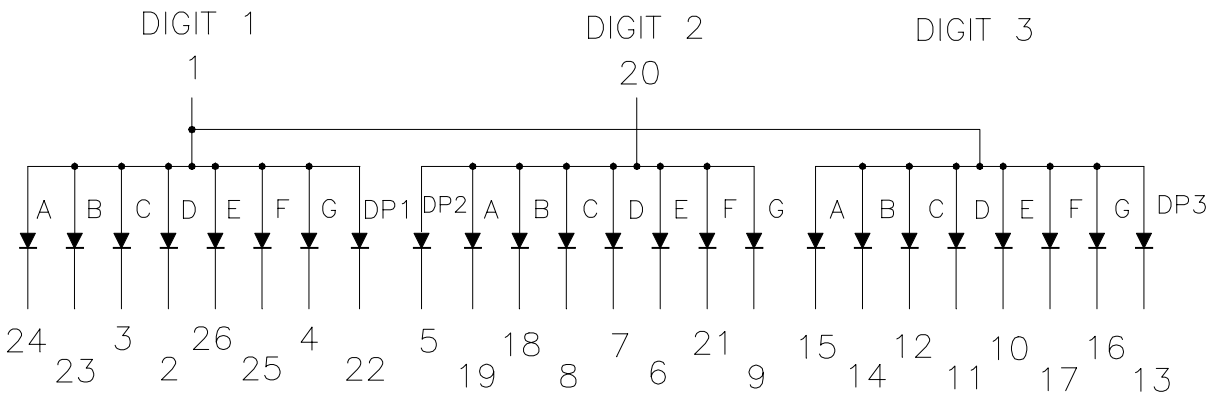
PART NO.	DESCRIPTION
AllnGaP HI.-EFF. RED	Common Anode Rt.H.Decimal
LTC-2624JD	

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	NO.	CONNECTION
1	DIGIT 1,DIGIT 3,COMMON ANODE	14	DIGIT 3 B CATHODE
2	DIGIT 1 D CATHODE	15	DIGIT 3 A CATHODE
3	DIGIT 1 C CATHODE	16	DIGIT 3 G CATHODE
4	DIGIT 1 G CATHODE	17	DIGIT 3 F CATHODE
5	DIGIT2 DP.2 CATHODE	18	DIGIT 2 B CATHODE
6	DIGIT 2 E CATHODE	19	DIGIT 2 A CATHODE
7	DIGIT 2 D CATHODE	20	DIGIT 2 COMMON ANODE
8	DIGIT 2 C CATHODE	21	DIGIT 2 F CATHODE
9	DIGIT 2 G CATHODE	22	DIGIT 1 DP.1 CATHODE
10	DIGIT 3 E CATHODE	23	DIGIT 1 B CATHODE
11	DIGIT 3 D CATHODE	24	DIGIT 1 A CATHODE
12	DIGIT 3 C CATHODE	25	DIGIT 1 F CATHODE
13	DIGIT 3 DP.3 CATHODE	26	DIGIT 1 E CATHODE

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	75	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°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[1/16inch] 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			10	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -m			2:1		I _F =10mA

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

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

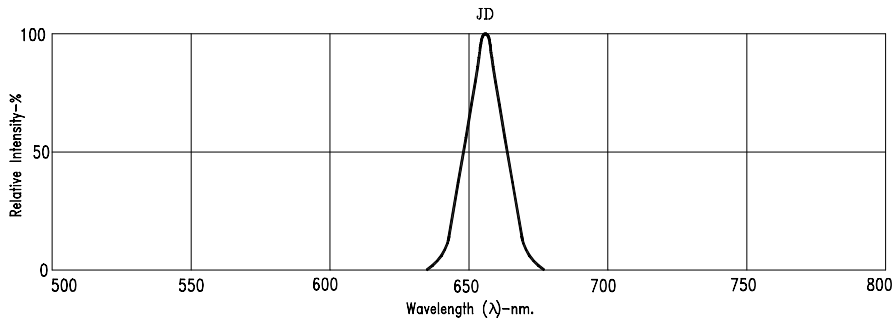


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

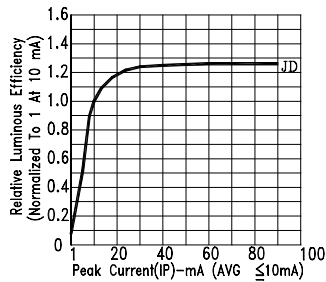


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT

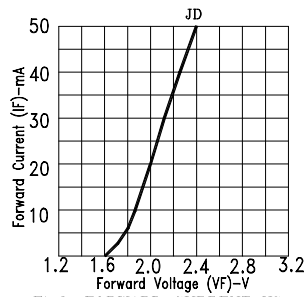


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

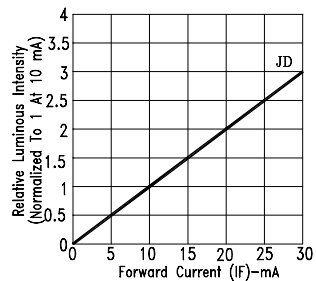


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

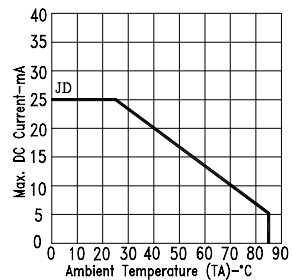


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

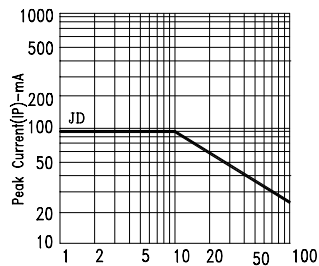


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE : JD=AlInGaP HI.-EFF. RED