## LITEON LITE-ON TECHNOLOGY CORPORATION Property of Lite-On Only

### **FEATURES**

\* 0.4inch (10.0mm) 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-4727JR inch (10.0 mm) digit height quadruple digit seven-segment display. This device utilizes AlInGaP super 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 Super Red	Multiplex Common Cathode		
LTC-4727JR	Rt. Hand Decimal		

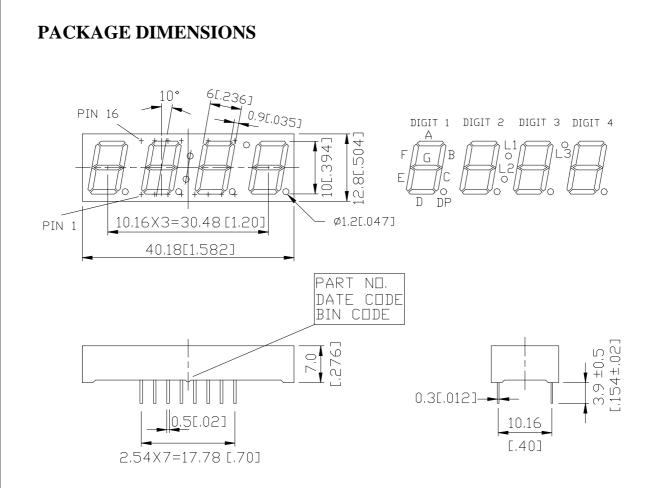
PART NO.: LTC-4727JR

BNS-OD-C131/A4

# LITEON

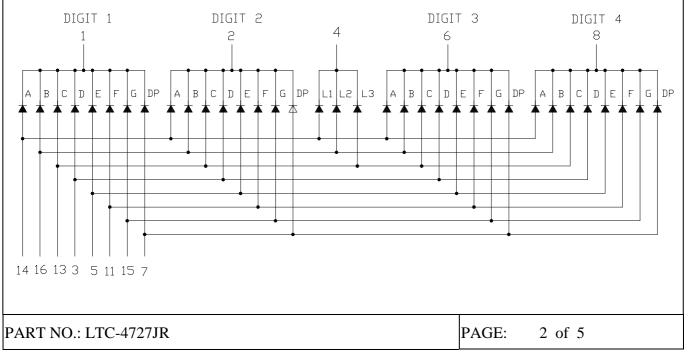
## LITE-ON TECHNOLOGY CORPORATION

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

PART NO.: LTC-4727JR

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## ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING				
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	$-35^{\circ}$ C to $+85^{\circ}$ C				
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C				
Solder Temperature: max $260^{\circ}$ C for max 3sec at 1.6mm below seating plane.					

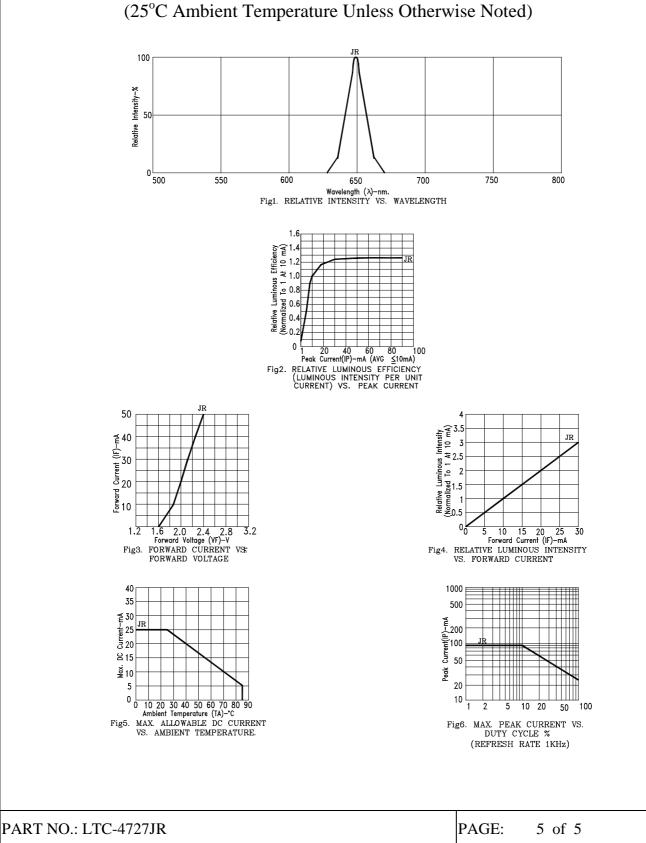
## ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	320	975		μcd	IF=1mA
Peak Emission Wavelength	λp		639		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		631		nm	IF=20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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**



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