



Spec No.: DS30-2000-064 Effective Date: 01/09/2001 Revision: -



BNS-OD-FC001/A4

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# LITEON LITE-ON ELECTRONICS, INC.

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### **FEATURES**

\* 0.7INCH (17.22mm) 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 LTP-747KR is a 0.7inch (17.22mm) matrix height 5 x 7 dot matrix 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 dots.

### DEVICE

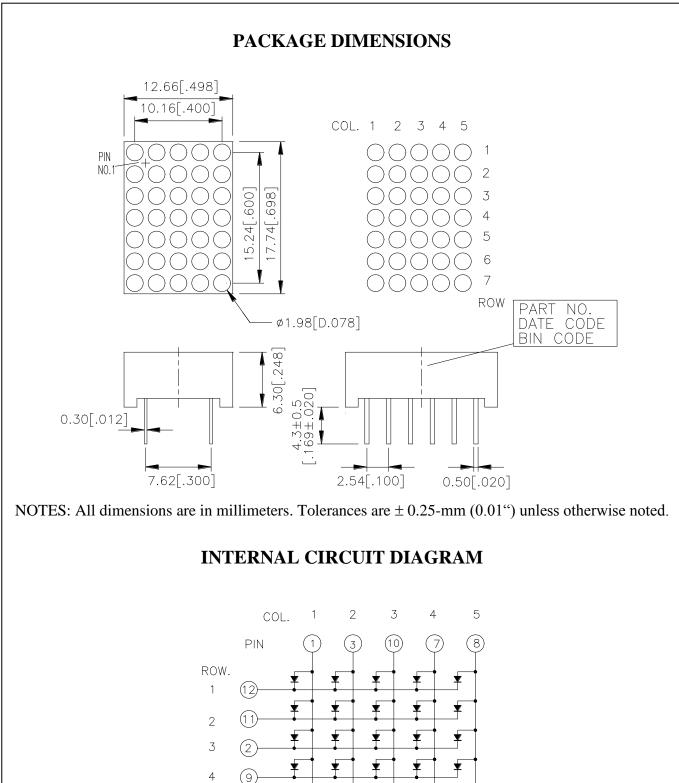
PART NO.	DESCRIPTION
AlInGaP SUPER RED	Anode Column
LTP-747KR	Cathode Row

]	PART NO.: LTP-747KR	PAGE:	1 of 5
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PAGE:

2 of 5

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BNS-OD-C131/A4

PART NO.: LTP-747KR



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# **PIN CONNECTION**

No.	CONNECTION					
1	ANODE COLUMN 1					
2	CATHODE ROW 3					
3	ANODE COLUMN 2					
4	CATHODE ROW 5					
5	CATHODE ROW 6					
6	CATHODE ROW 7					
7	ANODE COLUMN 4					
8	ANODE COLUMN 5					
9	CATHODE ROW 4					
10	ANODE COLUMN 3					
11	CATHODE ROW 2					
12	CATHODE ROW 1					

PART NO.: LTP-747KR

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### ABSOLUTE MAXIMUM RATING AT T<sub>A</sub>=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Average Power Dissipation Per dot	33	mW			
Peak Forward Current Per dot	90	mA			
Average Forward Current Per dot	13	mA			
Derating Linear From 25 <sup>0</sup> C Per dot	0.17	mA/ <sup>0</sup> C			
Reverse Voltage Per dot	5	V			
Operating Temperature Range	$-35^{\circ}$ 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 <sup>0</sup> C					

# ELECTRICAL / OPTICAL CHARACTERISTICS AT T<sub>A</sub>=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1650	3400		μcd	IP=32mA, 1/16Duty
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 dot	VF		2.0	2.6	V	IF=20mA
Reverse Current Per dot	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IP=32mA, 1/16Duty

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

PART NO.: LTP-74/KR PAGE: 4 of 5	PART NO.: LTP-747KR	I	PAGE:	4 of 5
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#### **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**

