

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

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-747KA is a 0.7inch (17.22mm) matrix height 5 x 7 dot matrix display. This device utilizes AlInGap Red Orange LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white dots.

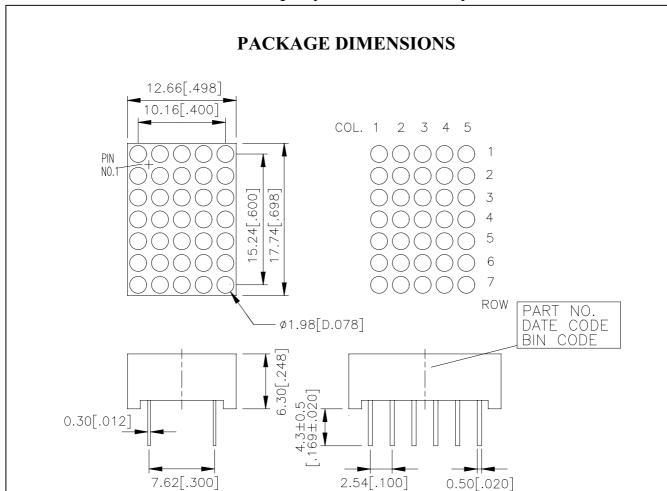
DEVICE

PART NO.	DESCRIPTION		
AlInGaP RED ORANGE	Anode Column		
LTP-747KA	Cathode Row		

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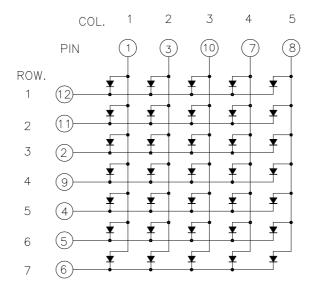
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NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25-mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION					
1	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					

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ABSOLUTE MAXIMUM RATING AT T_A=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 ^o C Per dot	0.17	mA/ ⁰ C				
Reverse Voltage Per dot	5	V				
Operating Temperature Range	-35°C to +85°C					
Storage Temperature Range	-35°C to +85°C					
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C						

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

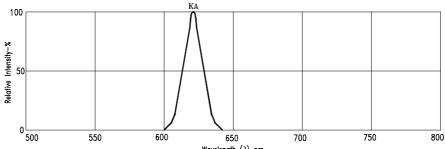
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1650	3400		μcd	I _P =32mA, 1/16Duty
Peak Emission Wavelength	λр		621		nm	I _F =20mA
Spectral Line Half-Width	Δλ		18		nm	I _F =20mA
Dominant Wavelength	λd		615		nm	I _F =20mA
Forward Voltage Per dot	V_{F}		2.05	2.6	V	I _F =20mA
Reverse Current Per dot	Ir			100	μΑ	$V_R=5V$
Luminous Intensity Matching Ratio	Iv-m			2:1		I _P =32mA, 1/16Duty

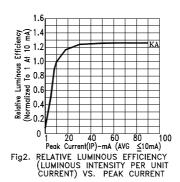
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

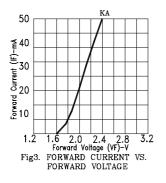
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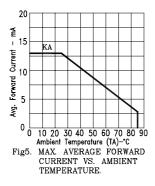
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

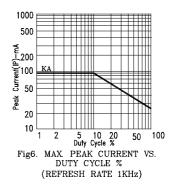








Intensity 10 mA) Relative Lun (Normalized 1.5 1.5 0 5 10 15 20 25 30
Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: KA=AlInGaP Red Orange

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