

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

- *1.2 inch (30.42 mm) MATRIX HEIGHT.
- *LOW POWER REQUIREMENT.
- *SINGLE PLANE, WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *5×7 ARRAY WITH X-Y SELECT.
- *COMPATIBLE WITH USASCII AND EBCDIC CODES.
- *STACKABLE HORIZONTALLY.
- *CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTP-1457AKY is a 1.2 inch (30.42 mm) matrix height 5×7 dot matrix displays. This device utilizes AlInGaP Amber Yellow LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white dot color.

DEVICE

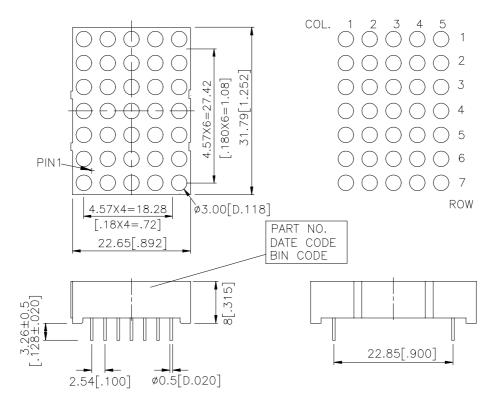
PART NO.	DESCRIPTION		
AlInGaP AMBER YELLOW	ANODE COLUMN		
LTP-1457AKY	CATHODE ROW		

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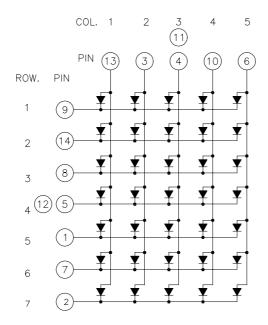
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PACKAGE DIMENSIONS



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	CATHODE ROW	5
2	CATHODE ROW	7
3	ANODE COLUMN	2
4	ANODE COLUMN	3
5	CATHODE ROW	4
6	ANODE COLUMN	5
7	CATHODE ROW	6
8	CATHODE ROW	3
9	CATHODE ROW	1
10	ANODE COLUMN	4
11	ANODE COLUMN	3
12	CATHODE ROW	4
13	ANODE COLUMN	1
14	CATHODE ROW	2

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Average Power Dissipation Per Dot	25	mW			
Peak Forward Current Per Dot (1/10 Duty Cycle, 0.1 ms Pulse Width)	60	mA			
Average Forward Current Per Dot	13	mA			
Derating Linear From 25°C Per Dot	0.17	mA/°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: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

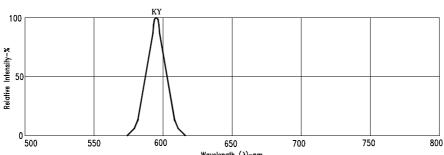
PARAMETER	SVMROI	MIN	TVD	MAY	IINIT	TEST CONDITION
TAKANETEK	STNIDOL	141114.	111.	MAA.	UNII	TEST CONDITION
Average Luminous Intensity	Iv	2100	3800		μcd	I _p =80mA 1/16Duty
Peak Emission Wavelength	λр		595		nm	I=20mA
Spectral Line Half-Width	Δλ		15		nm	I _F =20mA
Dominant Wavelength	λd		592		nm	I _F =20mA
Forward Voltage any Dot	VF		2.05	2.6	V	I _F =20mA
Reverse Current any Dot	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _p =80mA 1/16Duty

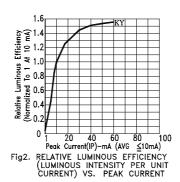
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

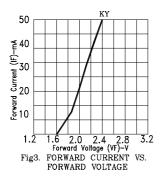
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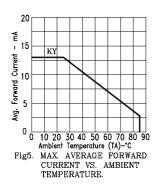
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



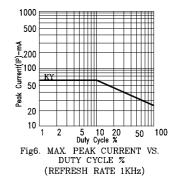






Intensity 10 mA) KY ₹2.5 -_e 2 Relative Luminous In (Normalized To 1 At 2:00.2 0 5 10 15 20 25 30 Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY

VS. FORWARD CURRENT



NOTE: KY=AlinGaP AMBER YELLOW

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