

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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Spec No.: DS30-2001-322 Effective Date: 11/01/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *2.0 inch (50.8 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-2057AKA is a 2.0 inch (50.8 mm) matrix height 5x7 dot matrix display. This device utilizes AlInGaP Super Orange LED chips, which are made from AlInGaP on a GaAs substrate and has a gray face and white dot color.

DEVICE

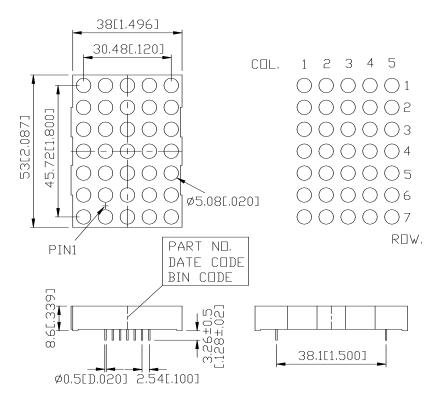
PART NO.	DESCRIPTION		
AlInAaP Super Orange	ANODE COLUMN		
LTP-2057AKA	CATHODE ROW		

PAGE: PART NO.: LTP-2057AKA 1 of 5 LITEON

LITE-ON ELECTRONICS, INC.

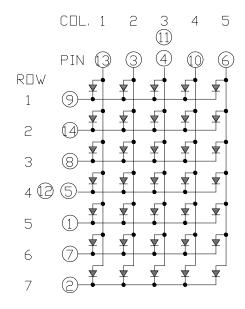
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PACKAGE DIMENSIONS



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	33	mW			
Peak Forward Current Per Dot	90	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 ma	ax 3sec at 1.6mm[1/16inch] below sea	iting plane.			

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

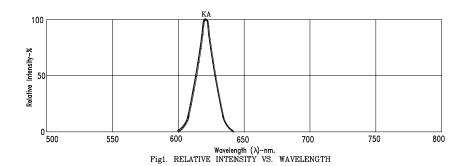
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	2100	4600		μcd	I _p =32mA 1/16Duty
Peak Emission Wavelength	λр		621		nm	I _F =20mA
Spectral Line Half-Width	Δλ		18		nm	I _F =20mA
Dominant Wavelength	λd		615		nm	I _F =20mA
	VF		2.05	2.6		I _F =20mA
Forward Voltage any Dot			2.3	2.8	V	I _F =80mA
Reverse Current any Dot	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _p =32mA 1/16Duty

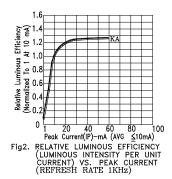
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

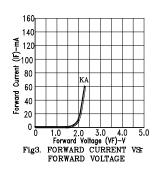
PART NO.: LTP-2057AKA PAGE: 4 of 5

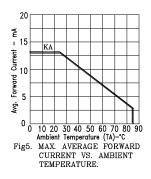
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

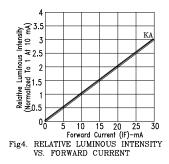
(25°C Ambient Temperature Unless Otherwise Noted)

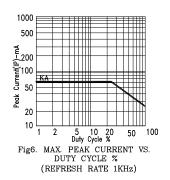












NOTE: KA=AlInGaP Super Orange

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