# imall

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!



## Contact us

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### **LED DISPLAY**

### LTP-305G DATA SHEET

Rev	Description	By			
-	NPPR Original Spec	Erin Cheng 07/20/2004			
A	Revise height of package from $3.05 \pm 0.5$ mm to $3.50 \pm 0.5$ mm Add more the product's spec	Phanomkorn J 02/15/2012			
		02/13/2012			

Spec No.	DS30-2004-145
Date	02/15/2012
Revision No.	А
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Customer Approval	
Date	

PART NO.: LTP-305G

#### **FEATURES**

- \* 0.3 inch (7.62 mm) MATRIX HEIGHT
- \* LOW POWER REQUIREMENT
- \* SINGLE PLANE, WIDE VIEWING ANGLE
- \* SOLID STATE RELIABILITY
- \* 5X7 ARRAY WITH X-Y SELECT
- \* COMPATIBLE WITH USASCLL AND EBCDIC CODES
- \* STACKABLE HORIZONTALLY
- \* CATEGORIZED FOR LUMINOUS INTENSITY
- \* LEAD-FREE PACKAGE (ACCORDING TO ROHS)

#### DESCRIPTION

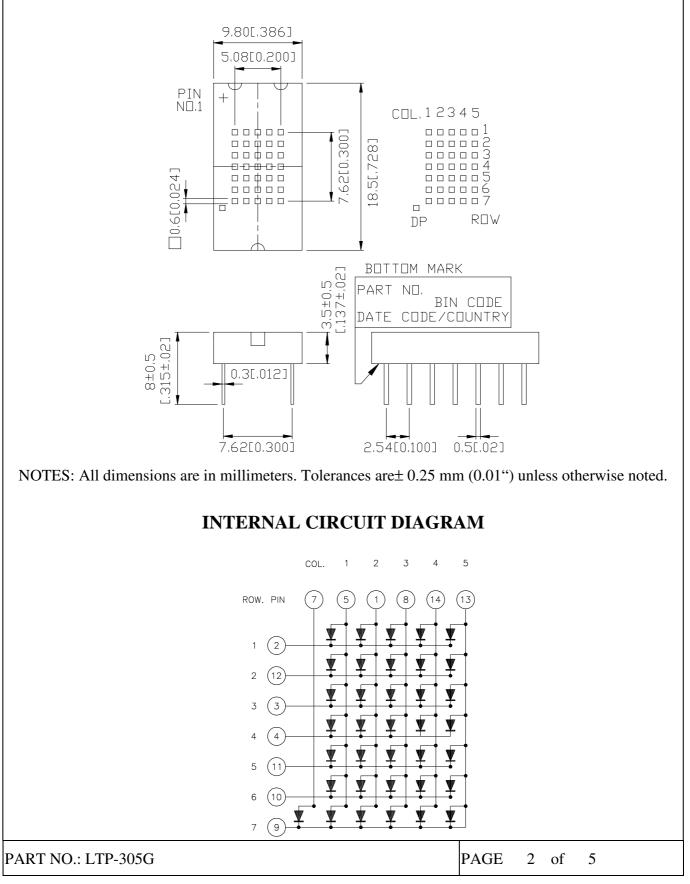
The LTP-305G is a 0.3 inch (7.62 mm) matrix height 5x7 dot matrix display. This device uses GREEN LED chips (GaP epi on GaP substrate). The display has green package.

#### DEVICE

PART NO.	DESCRIPTION					
GREEN	ANODE COLUMN					
	CATHODE ROW					
LTP-305G	LT. HAND DECIMAL					

PART NO.: LTP-305G





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#### **PIN CONNECTION**

No	CONNECTION
1	ANODE COLUMN 2
2	CATHODE ROW 1
3	CATHODE ROW 3
4	CATHODE ROW 4
5	ANODE COLUMN 1
6	NO PIN
7	ANODE DECIMAL POINT
8	ANODE COLUMN 3
9	CATHODE ROW 7
10	CATHODE ROW 6
11	CATHODE ROW 5
12	CATHODE ROW 2
13	ANODE COLUMN 5
14	ANODE COLUMN 4

PART NO.: LTP-305G

#### **ABSOLUTE MAXIMUM RATING**

PARAMETER	MAXIMUM RATING	UNIT			
Average Power Dissipation Per Dot	36	mW			
Peak Forward Current Per Dot (Frequency 1Khz, 10% duty cycle)	75*	mA			
Average Forward Current Per Dot	10	mA			
Forward Current Derating From 25 <sup>0</sup> C	0.14	mA/ <sup>0</sup> C			
Reverse Voltage Per Dot	5	V			
Operating Temperature Range $-40^{\circ}$ C to $+85^{\circ}$ C					
Storage Temperature Range $-40^{\circ}$ C to $+85^{\circ}$ C					
Soldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 <sup>0</sup> C					
or of temperature unit (during assembly) not over max. temperature rating.					

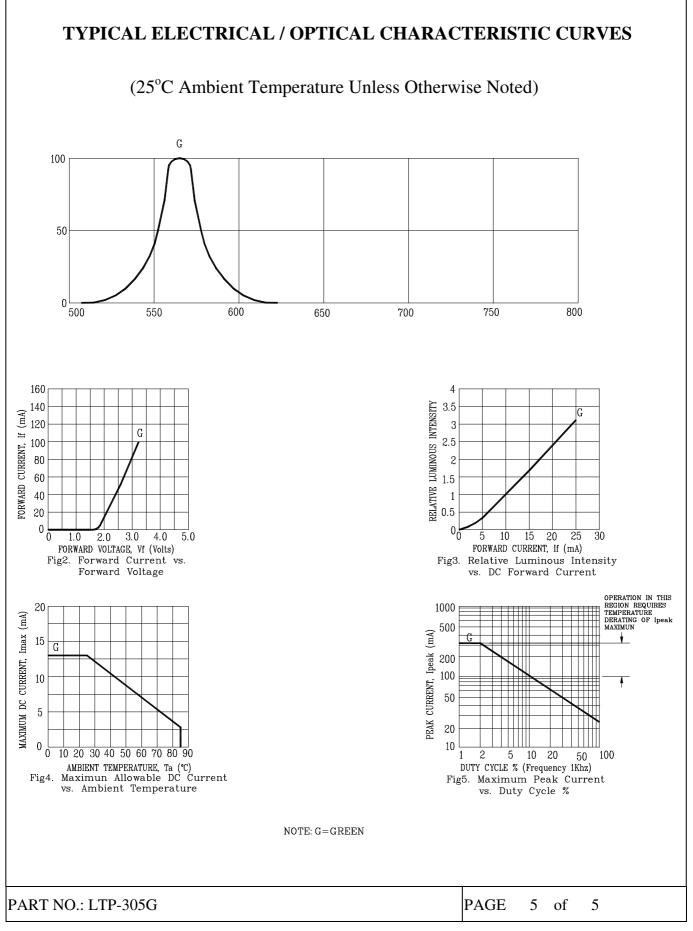
\* see figure 5 to establish pulsed condition

#### **ELECTRICAL / OPTICAL CHARACTERISTICS AT T\_A = 25^{\circ}C**

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity Per Dot	Iv	630	1600		μcd	$I_P = 80 mA$ , 1/16Duty
Peak Emission Wavelength	λp		565		nm	$I_F = 20 mA$
Spectral Line Half-Width	Δλ		30		nm	$I_F = 20 mA$
Dominant Wavelength	λd		569		nm	IF = 20mA
Forward Voltage Per Dot	VF		2.1	2.6	V	$I_F = 20 m A$
Reverse Current Per Dot	Ir			100	μΑ	$V_R = 5V$
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		I₽ = 80mA , 1/16 Duty

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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