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### LED DISPLAY

### LTP-2557C DATA SHEET

Rev	Description	By
-	Original Spec	<u>Ruby Lee</u>
Α	Define F/M at 10mil (page 2).	PHANOMKORN J

SPEC. NO.:	DS-30-98-476
DATE :	08/NOV/06
REV. NO. :	А

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#### **FEATURES**

- \* 2 inch (50.8 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

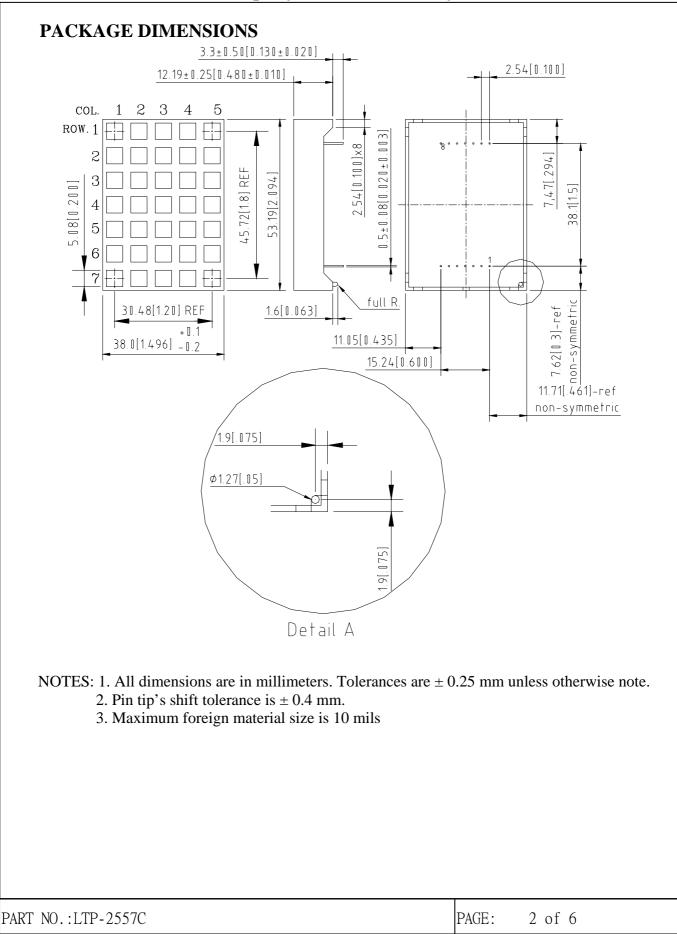
The LTP-2557C is a 2 inch (50.8 mm) matrix height 5x7 dot matrix display. This device utilizes AlGaAs red LED chips, which are made from AlGaAs on a non-transparent GaAs substrate, and has a gray face and white dot color.

### DEVICE

PART NO.	DESCRIPTION	
AlGaAs Red	Cathode Column	
LTP-2557C	Anode Row	

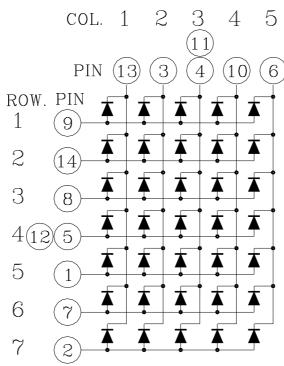
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#### INTERNAL CIRCUIT DIAGRAM



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#### **PIN CONNECTION**

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

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### ABSOLUTE MAXIMUM RATING AT $T_A=25^{\circ}C$

PARAMETER	MAXIMUM RATING	UNIT		
Average Power Dissipation Per Dot	36	mW		
Peak Forward Current Per Dot	125	mA		
Average Forward Current Per Dot	15	mA		
Derating Linear From 25 <sup>0</sup> C Per Dot	0.20	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 $+85^{\circ}C$				
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 above.				

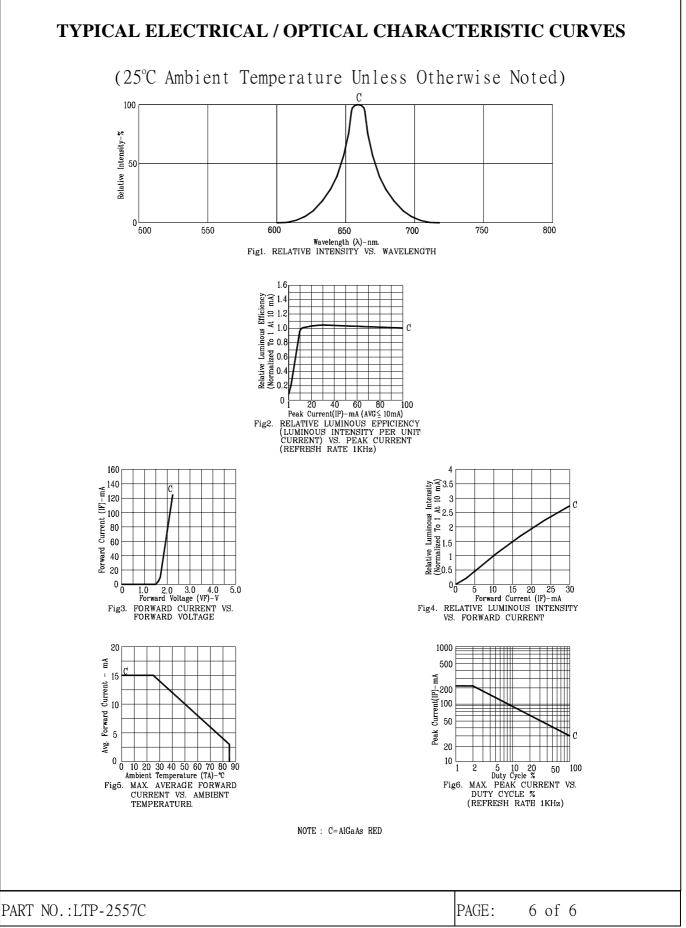
### **ELECTRICAL / OPTICAL CHARACTERISTICS AT TA=25°C**

PARAMETER	SYMBOL	MIN.	ТҮР.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	6200	12000		μcd	I <sub>p</sub> =80mA 1/16DUTY
Peak Emission Wavelength	λp		660		nm	IF=20mA
Spectral Line Half-Width	Δλ		35		nm	IF=20mA
Dominant Wavelength	λd		638		nm	IF=20mA
	N Z		1.8	2.4	V	IF=20mA
Forward Voltage any Dot	VF		2	3.1	V	IF=80mA
Reverse Current any Dot	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		I <sub>p</sub> =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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### LITEON LITE-ON TECHNOLOGY CORPORATION Property of Lite-On Only



BNS-OD-C131/A4