LITEON

LITE-ON TECHNOLOGY CORPORATION

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-757KR-01 is a 0.7inch (17.22mm) matrix height 5 x 7 dot matrix display. This device utilizes AlInGap Super Red LED chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a gray face and white dots.

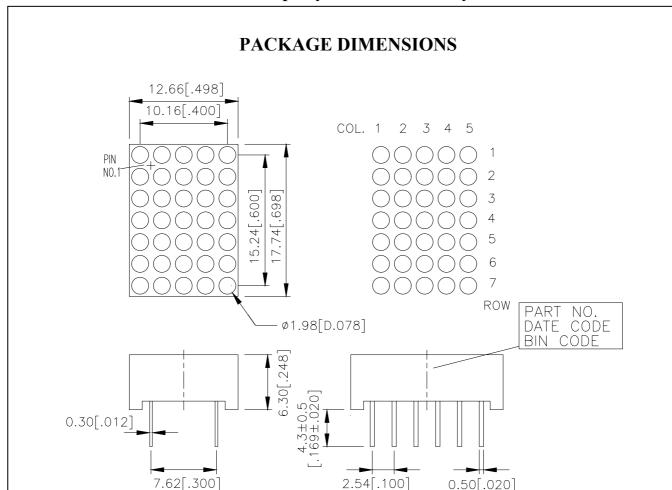
DEVICE

PART NO.	DESCRIPTION		
AlInGaP SUPER RED	Cathode Column		
LTP-757KR-01	Anode Row		

PART NO.: LTP-757KR-01 PAGE: 1 of 5

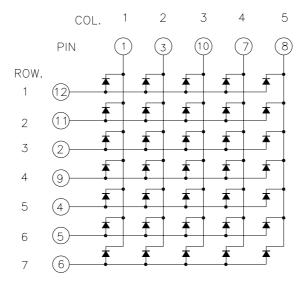
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NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25-mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTP-757KR-01 PAGE: 2 of 5



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PIN CONNECTION

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

PAGE: PART NO.: LTP-757KR-01 3 of 5



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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 ^o C						

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

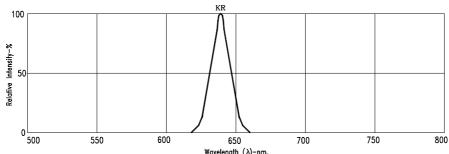
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1650	3400		μcd	I _P =32mA , 1/16Duty
Peak Emission Wavelength	λр		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		631		nm	I _F =20mA
Forward Voltage Per dot	VF		2.0	2.6	V	I _F =20mA
Reverse Current Per dot	Ir			100	μA	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1	•	I _P =18mA , 1/16Duty

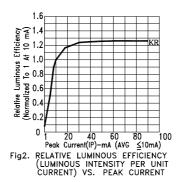
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

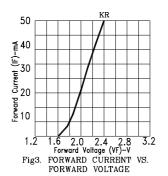
PART NO.: LTP-757KR-01 PAGE: 4 of 5

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)







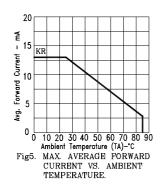
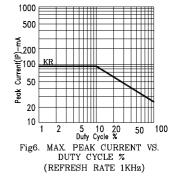


Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: KR=AlInGaP SUPER RED

PART NO.: LTP-757KR-01 PAGE: 5 of 5