



Spec No.: DS30-2000-062Effective Date: 01/09/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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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 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.

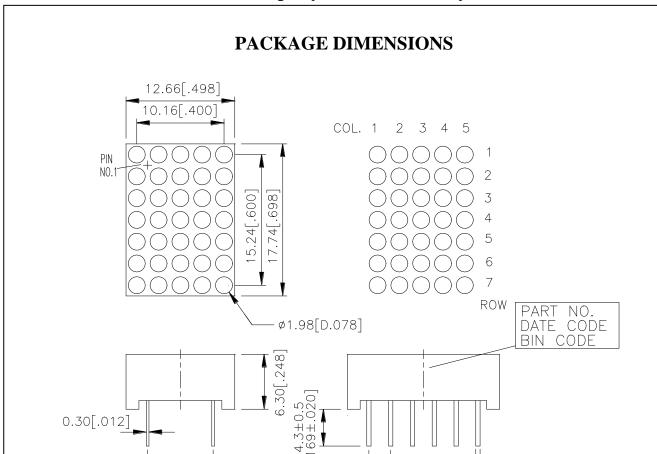
DEVICE

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

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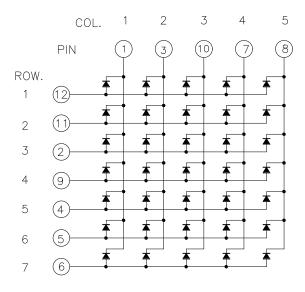
NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25-mm (0.01") unless otherwise noted.

2.54[.100]

0.50[.020]

7.62[.300]

INTERNAL CIRCUIT DIAGRAM



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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				

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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^{0} C to $+85^{0}$ C				
Storage Temperature Range	-35^{0} C to $+85^{0}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

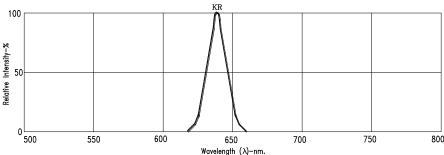
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1650	3400		μcd	I _P =32mA , 1/16Duty
Peak Emission Wavelength	λр		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λd		631		nm	I _F =20mA
Forward Voltage Per dot	VF		2.0	2.6	V	I _F =20mA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

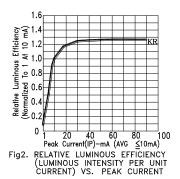
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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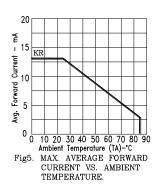
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



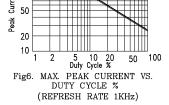


50 KR
440
2 20
30
1.2 1.6 2.0 2.4 2.8 3.2
Forward Voltage (VF)-V
Fig3. FORWARD CURRENT VS.
FORWARD VOLTAGE



1000 500 VE 200 KR

VS. FORWARD CURRENT



NOTE: KR=AlInGaP SUPER RED

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