



LED Display Product Data Sheet LTP-757KR

Spec No.: DS30-2000-062

Effective Date: 01/09/2001

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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.

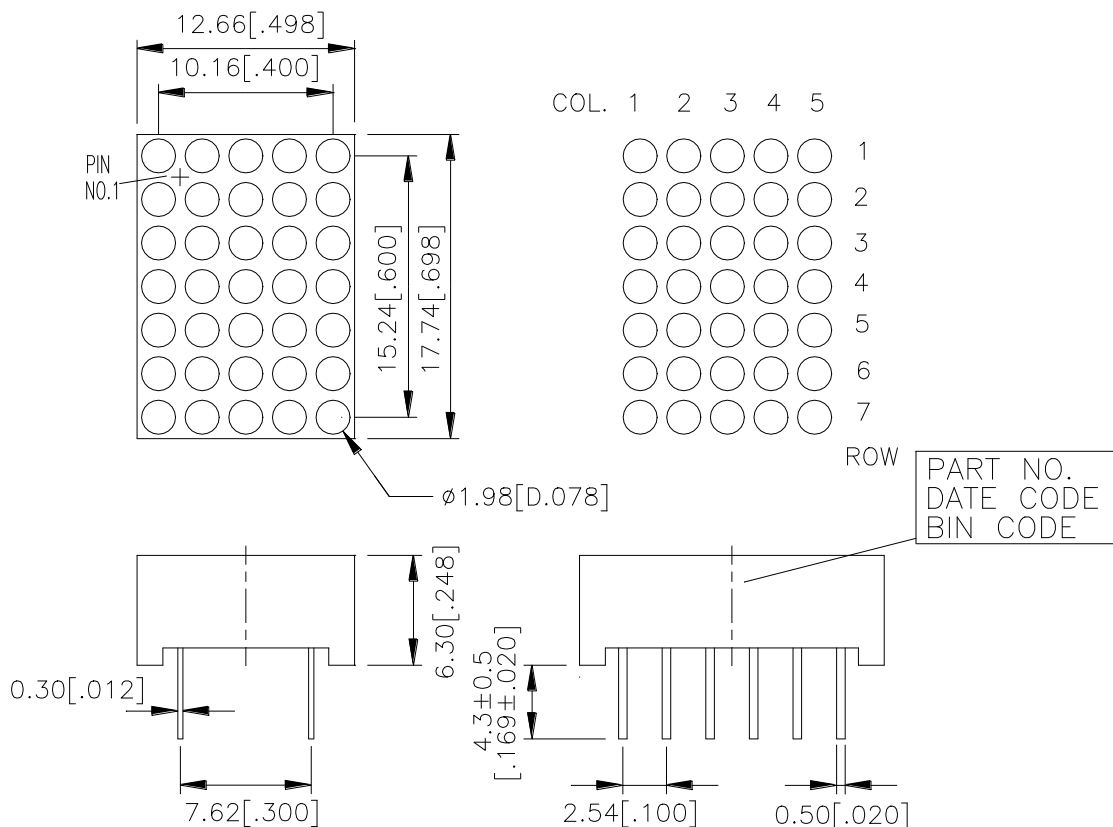
DESCRIPTION

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

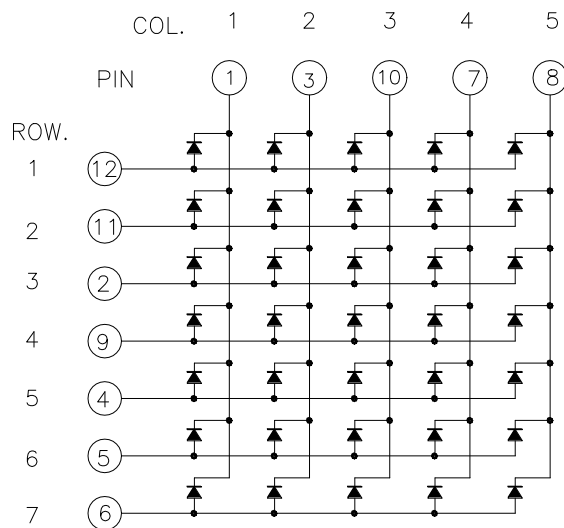
| PART NO. | DESCRIPTION |
|-------------------|--------------------|
| AlInGaP SUPER RED | Cathode Column |
| LTP-757KR | Anode Row |

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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 |

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 ⁰ 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 ⁰ C | | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

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

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

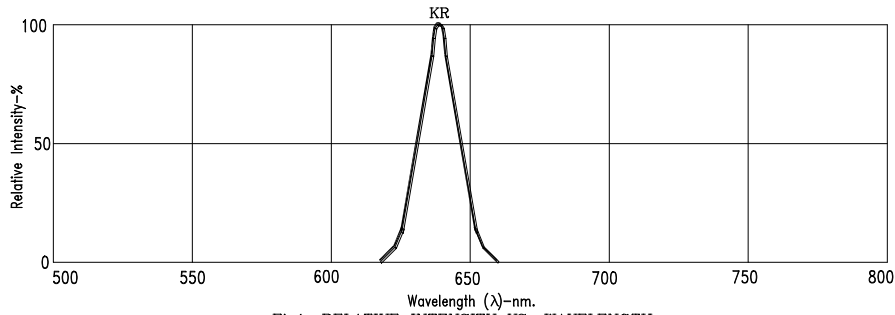


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

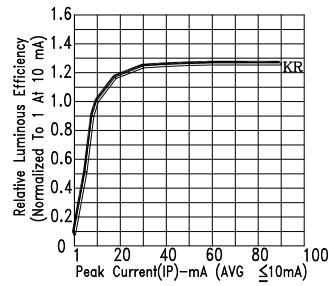


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT

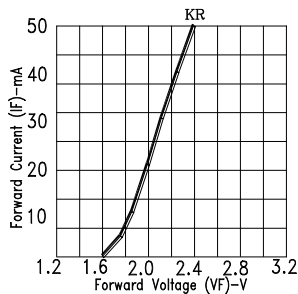


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

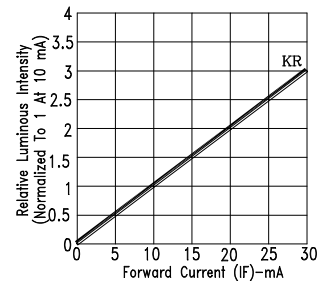


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

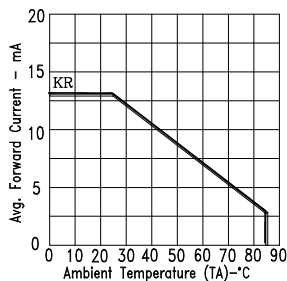


Fig5. MAX AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE.

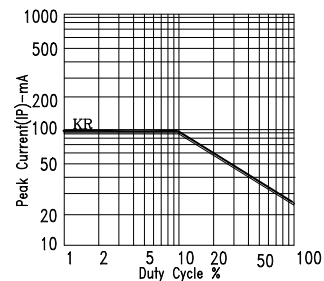


Fig6. MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

NOTE: KR=AlInGaP SUPER RED

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