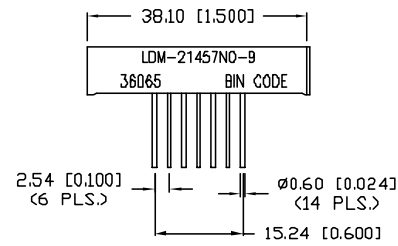
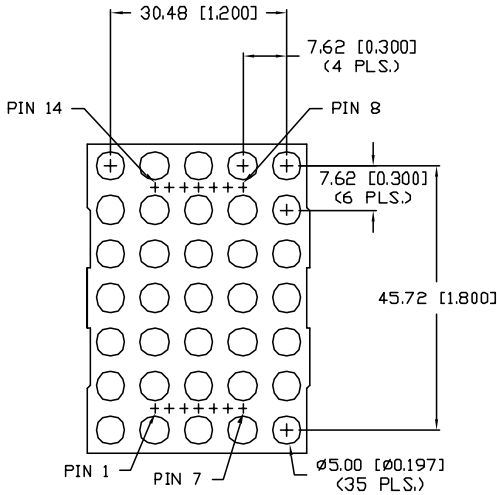


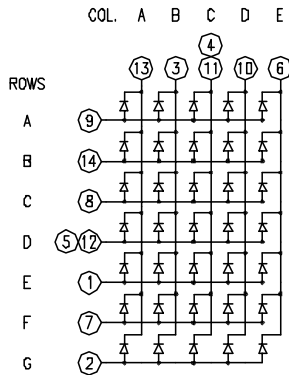
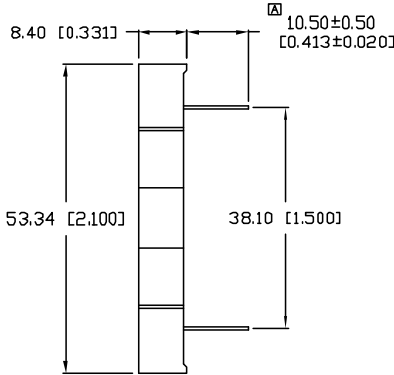
UNCONTROLLED DOCUMENT



NOTES: □

1. PARTS TO BE SUPPLIED WITH LUMEX PART NUMBER AND BIN CODE.
2. PARTS TO BE SUPPLIED WITH CUSTOMER PART NUMBER 36065.
3. PARTS TO BE SUPPLIED IN TUBES WITH TUBES CONTAINING THE SAME BIN CODES.

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.006). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), NN= ±DECIMAL PRECISION MAX.= +0.00 DECIMAL PRECISION



PART NUMBER  
LDM-21457NO-9

REV.  
B

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #10562.                      | 10.18.99 |
| B    | E.C.N. #10BRDR.                     | 10.16.01 |

| ELECTRO-OPTICAL CHARACTERISTICS T <sub>A</sub> =25°C I <sub>f</sub> =10mA |              |           |        |                |                       |
|---|--------------|-----------|--------|----------------|-----------------------|
| PARAMETER   | MIN          | TYP       | MAX    | UNITS          | TEST COND             |
| PEAK WAVELENGTH   |              | 635 (RED) |        | nm             |                       |
| FORWARD VOLTAGE   |              | 2.0       | 2.5    | V <sub>f</sub> |                       |
| REVERSE VOLTAGE   | 5.0          |           |        | V <sub>r</sub> | I <sub>r</sub> =100μA |
| AXIAL INTENSITY   | 4,700        |           | 10,400 | μcd            | I <sub>f</sub> =10mA  |
| VIEWING ANGLE   |              | 100       |        | 2x theta       |                       |
| EMITTED COLOR:  | RED          |           |        |                |                       |
| FACE COLOR:   | RED          |           |        |                |                       |
| SEGMENT COLOR:  | RED DIFFUSED |           |        |                |                       |

| BIN CODE | K     | M     | N     |
|----------|-------|-------|-------|
| RANGE    | 4700~ | 6150~ | 8000~ |
| μcd      | 6150  | 8000  | 10400 |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER                | MAX        | UNITS      |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT*    | 150        | mA         |
| STEADY CURRENT           | 30         | mA         |
| POWER DISSIPATION        | 105        | mW         |
| DERATE FROM 25°C         | -1.2       | mW/°C      |
| OPERATING, STORAGE TEMP. | -20 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2.0mm FROM BODY          |            | 3 SEC. MAX |

\* I<sub>T</sub><math><10\mu\text{S}</math>

UNCONTROLLED DOCUMENT

| REV. | PART NUMBER   |
|------|---------------|
| B    | LDM-21457NO-9 |

2.1" TALL, 5 x 7 DOT MATRIX DISPLAY, COLUMN CATHODE,  
635nm RED LEDS, RED FACE, RED SEGMENTS.

**CONFIDENTIAL INFORMATION**  
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**RELIABILITY NOTE**  
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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| DRAWN BY:<br>CT | CHECKED BY: | APPROVED BY: | DATE: 3.22.99 |
|                 |             |              | PAGE: 1 OF 1  |
|                 |             |              | SCALE: N/A    |