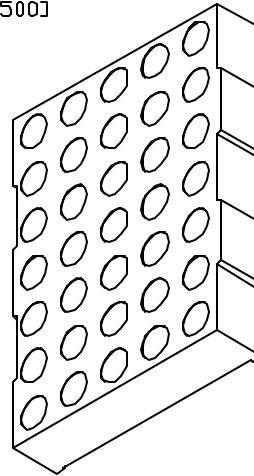
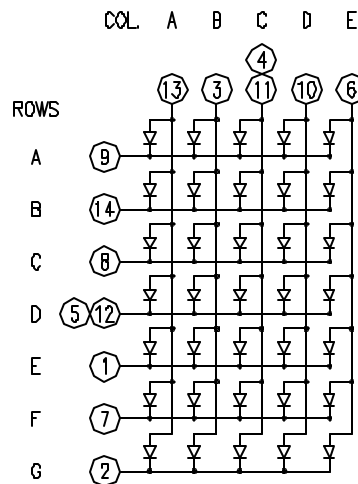
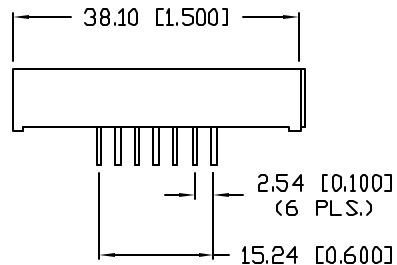
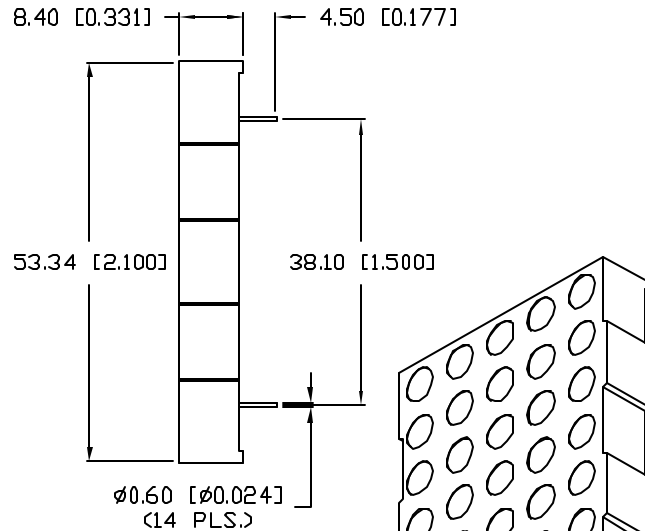
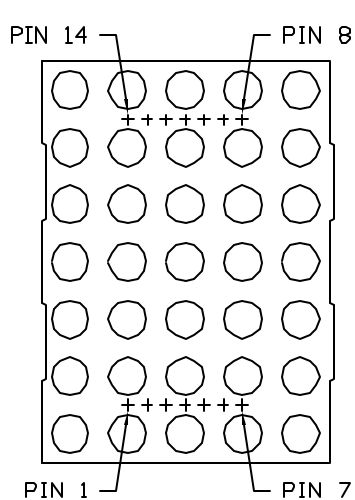


UNCONTROLLED DOCUMENT

| | | |
|-----------------------------------|---|------------------------|
| PART NUMBER LDM-21657MI | | REV. A |
| REV. A | E.C.N. NUMBER AND REVISION COMMENTS #10BRDR. & REDRAWN IN 3D. | DATE 6.28.03 |



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=10\text{mA}$

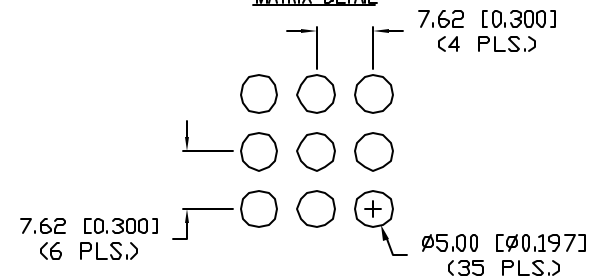
| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------|----------------------|------|-----|----------------|----------------------|
| PEAK WAVELENGTH | | 660 | | nm | |
| FORWARD VOLTAGE | | 1.7 | 2.2 | V_f | |
| REVERSE VOLTAGE | 4.0 | | | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY | | 6000 | | μcd | $I_f=10\text{mA}$ |
| EMITTED COLOR: | RED | | | | |
| FACE COLOR: | GRAY | | | | |
| SEGMENT COLOR: | MILKY WHITE DIFFUSED | | | | |

LIMITS OF SAFE OPERATION AT 25°C PER DOT

| PARAMETER | MAX | UNITS |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT* | 150 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 100 | mW |
| DERATE FROM 25°C | -1.5 | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP. | -40 TO +85 | $^\circ\text{C}$ |
| SOLDERING TEMP. | +260 | $^\circ\text{C}$ |
| 2.0mm FROM BODY | 3 SEC. MAX | |

* $t < 10\mu\text{s}$

MATRIX DETAIL



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +0.00 -0.00 MAX.= +0.00 -DECIMAL PRECISION

| | |
|---|-----------------------------------|
| REV. A | PART NUMBER LDM-21657MI |
| 2.10" 5 x 7 DOT MATRIX, LED DISPLAY, 660nm RED CHIPS, GRAY FACE WITH WHITE SEGMENTS, COLUMN ANODE, 14 PINS. | |

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.

| | | |
|---|-------------|---|
| LUMEX 290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw | | DATE: 4.20.00 PAGE: 1 OF 1 SCALE: N/A |
| DRAWN BY: BC | CHECKED BY: | APPROVED BY: |

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