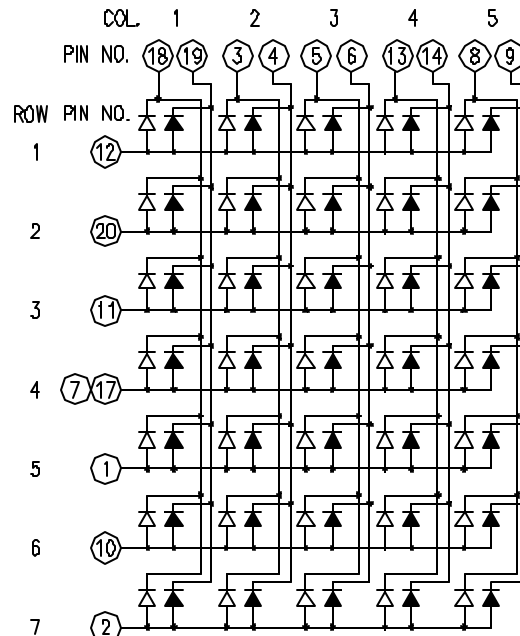
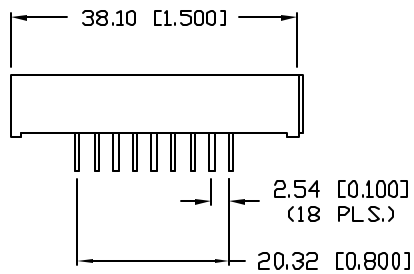
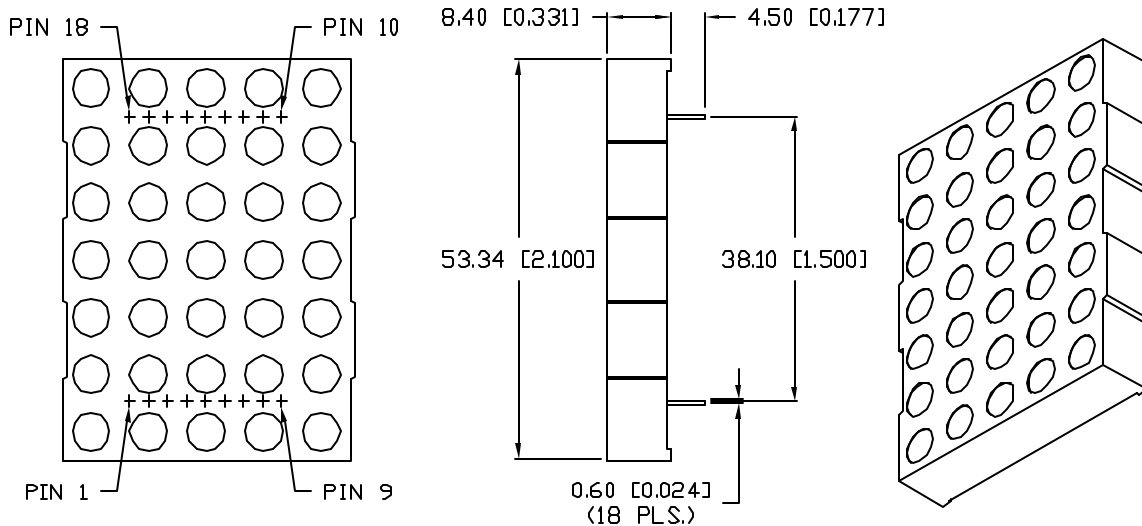


UNCONTROLLED DOCUMENT



PART NUMBER  
LDM-214257NI

REV.  
A

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

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

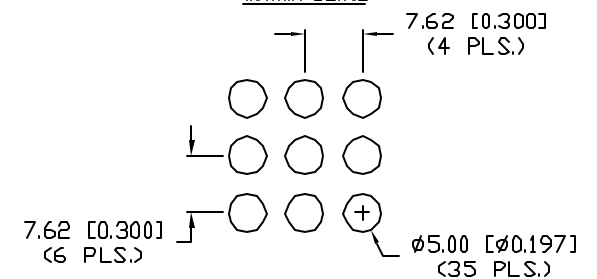
| PARAMETER             | MIN                  | TYP         | MAX     | UNITS          | TEST COND             |
|-----------------------|----------------------|-------------|---------|----------------|-----------------------|
| PEAK WAVELENGTH       |                      | 635 (RED)   |         | nm             |                       |
|                       |                      | 565 (GREEN) |         | nm             |                       |
| FORWARD VOLTAGE (R/G) |                      | 2.0/2.2     | 2.5/2.6 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE       | 5.0                  |             |         | V <sub>r</sub> | I <sub>r</sub> =100μA |
| AXIAL INTENSITY (R/G) |                      | 2000/2500   |         | μcd            | I <sub>f</sub> =10mA  |
| EMITTED COLOR:        | RED/GREEN            |             |         |                |                       |
| FACE COLOR:           | GRAY                 |             |         |                |                       |
| SEGMENT COLOR:        | MILKY WHITE DIFFUSED |             |         |                |                       |

LIMITS OF SAFE OPERATION AT 25°C PER DOT

| PARAMETER                | COLORS | MAX        | UNITS |
|--------------------------|--------|------------|-------|
| PEAK FORWARD CURRENT*    |        | 150        | mA    |
| STEADY CURRENT           | (R/G)  | 30/25      | mA    |
| POWER DISSIPATION        |        | 105        | mW    |
| DERATE FROM 25°C         |        | -1.6       | mW/°C |
| OPERATING, STORAGE TEMP. |        | -40 TO +85 | °C    |
| SOLDERING TEMP.          |        | +260       | °C    |
| 2.0mm FROM BODY          |        | 3 SEC. MAX |       |

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

MATRIX DETAIL



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\*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.= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

| REV.   | PART NUMBER  |
|--|--------------|
| A  | LDM-214257NI |
| 2.01" 5 x 7 BICOLOR DOT MATRIX LED DISPLAY, RED/GREEN BICOLOR CHIPS, GRAY FACE WITH WHITE DOTS, COLUMN CATHODE, 18 PINS. |              |

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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>BC   | CHECKED BY: | APPROVED BY:  |
|   |             | DATE: 6.10.97   |
|   |             | PAGE: 1 OF 1  |
|   |             | SCALE: N/A  |