

| ELECTRO-OPTICAL CHARACTERISTICS |                      | T <sub>A</sub> =25°C |     | I <sub>F</sub> =10mA |                       |
|---------------------------------|----------------------|----------------------|-----|----------------------|-----------------------|
| PARAMETER                       | MIN                  | TYP                  | MAX | UNITS                | TEST COND             |
| PEAK WAVELENGTH                 |                      | 645                  |     | nm                   |                       |
| FORWARD VOLTAGE *               |                      | 2.0                  | 2.6 | V <sub>F</sub>       |                       |
| REVERSE VOLTAGE                 | 4.0                  |                      |     | V <sub>R</sub>       | I <sub>R</sub> =100μA |
| AXIAL INTENSITY                 | 9                    | 16                   |     | mcd                  | I <sub>F</sub> =10mA  |
| EMITTED COLOR:                  | RED                  |                      |     |                      |                       |
| FACE COLOR:                     | BLACK                |                      |     |                      |                       |
| SEGMENT COLOR:                  | MILKY WHITE DIFFUSED |                      |     |                      |                       |

| LIMITS OF SAFE OPERATION AT 25°C PER SEGMENT |              |            |
|----------------------------------------------|--------------|------------|
| PARAMETER                                    | MAX          | UNITS      |
| PEAK FORWARD CURRENT*                        | 45           | mA         |
| STEADY CURRENT                               | 20           | mA         |
| POWER DISSIPATION                            | 45           | mW         |
| DERATE FROM 25°C                             | - 1.2        | mW/°C      |
| OPERATING, STORAGE TEMP.                     | - 40 TO + 85 | °C         |
| SOLDERING TEMP.                              | + 260        | °C         |
| 2.0mm FROM BODY                              |              | 3 SEC. MAX |

\*1/13 DUTY CYCLE, 1ms PULSE WIDTH.

**LUMEX®**  
Creating LED and LCD Solutions Together™

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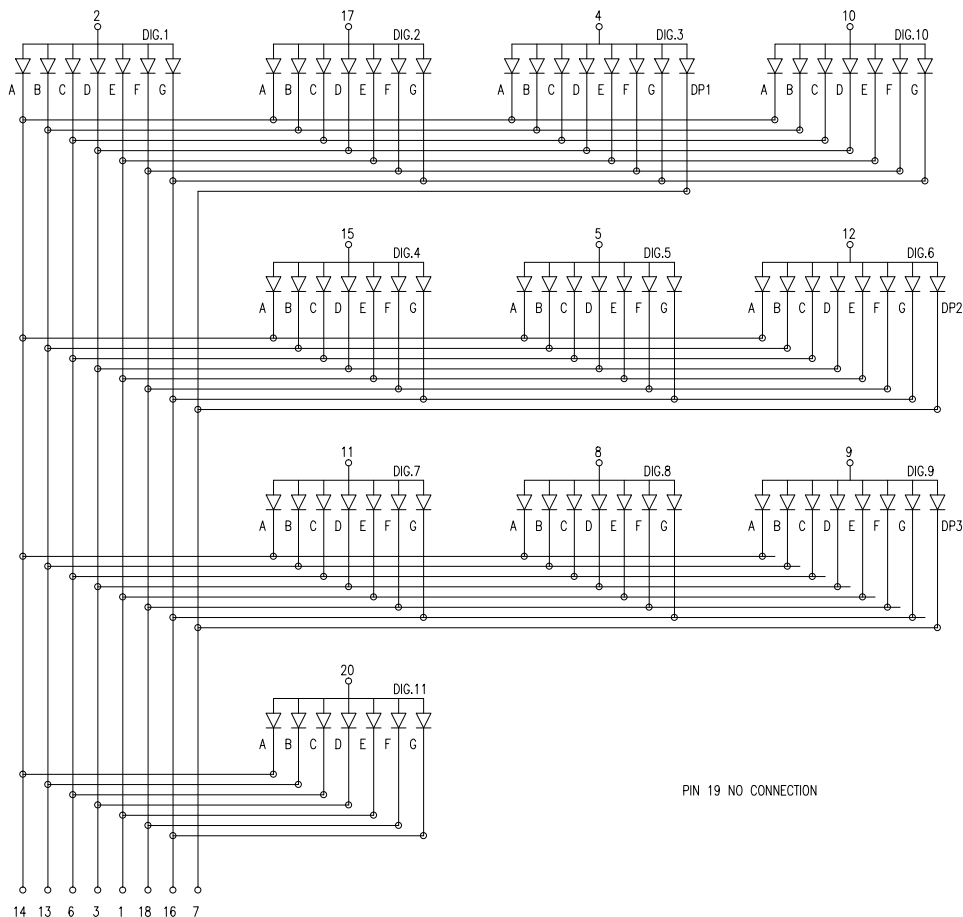
**\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\***

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|                 |              |
|-----------------|--------------|
| DATE: 01.28.09  | DRAWN BY: JN |
| PAGE: 1 OF 1    | CHKD BY: --  |
| SCALE:          | APRVD BY: KF |
| UNIT: mm [INCH] | (Pb)         |

|             |                                     |      |   |
|-------------|-------------------------------------|------|---|
| PART NUMBER | LDP-M5904ND-SI                      | REV. | A |
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      |   |
| 11.10.10    | E.C.N. #11679.                      |      |   |
|             |                                     | REV. | A |



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±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



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0.59" 11 DIGIT 7 SGMT LED DSPY, 645nm RED CHIPS, BLK FACE W/WHITE SGMTS, CA, 19 PINS, MULTIPLEXED.

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