

UNCONTROLLED DOCUMENT

(LX)

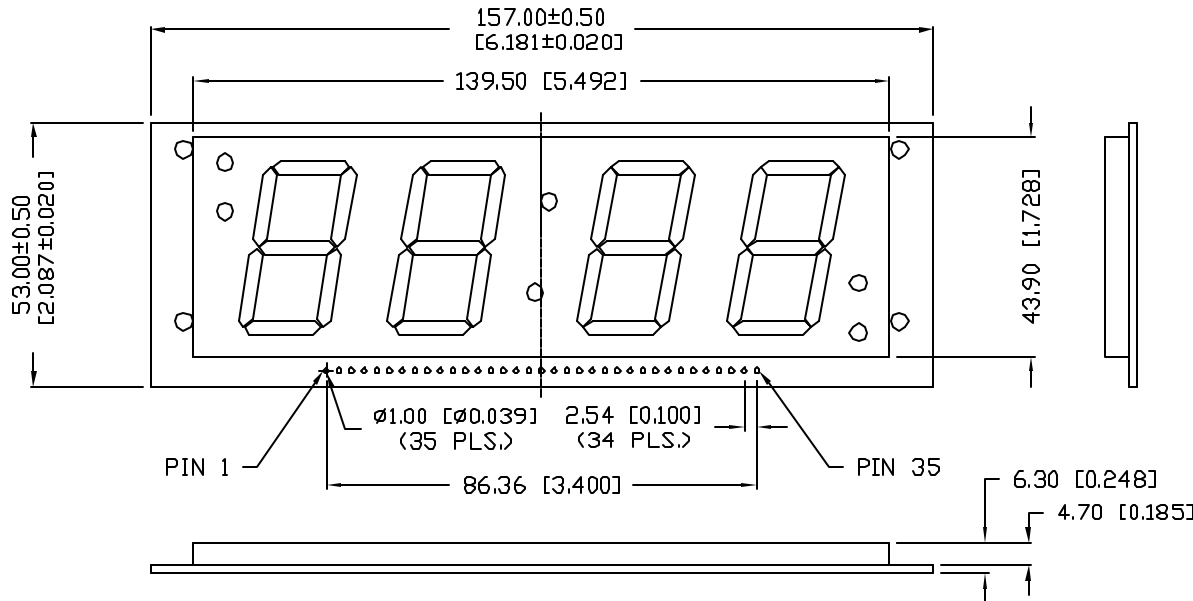
PART NUMBER

LDC-NA144R

REV.

A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE    |
|------|-------------------------------------|---------|
| A    | E.C.N. #11148.                      | 4.18.07 |

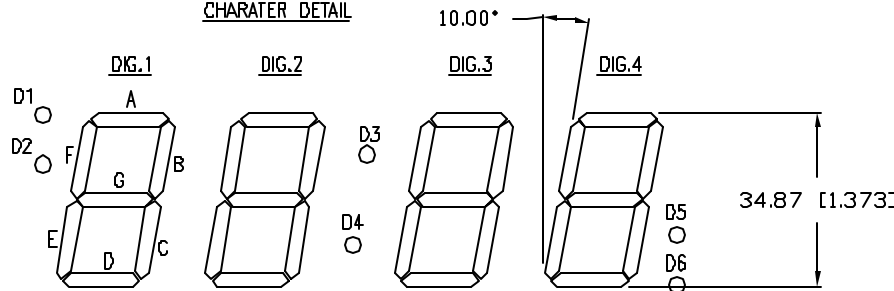


ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=10\text{mA}$

| PARAMETER        | MIN          | TYP       | MAX     | UNITS          | TEST COND             |
|------------------|--------------|-----------|---------|----------------|-----------------------|
| PEAK WAVELENGTH  |              | 635 (RED) |         | nm             |                       |
| FORWARD VOLTAGE* |              | 4.0/2.0   | 5.0/2.5 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE  | 5.0          |           |         | V <sub>r</sub> | I <sub>f</sub> =100μA |
| AXIAL INTENSITY  |              | 4400      |         | μcd            | I <sub>f</sub> =10mA  |
| EMITTED COLOR:   | RED          |           |         |                |                       |
| FACE COLOR:      | RED          |           |         |                |                       |
| SEGMENT COLOR:   | RED DIFFUSED |           |         |                |                       |

\* SECOND VALUE FOR SINGLE CHIP IN DECIMAL POINTS. (D1,D2,D3,D4,D5,D6)

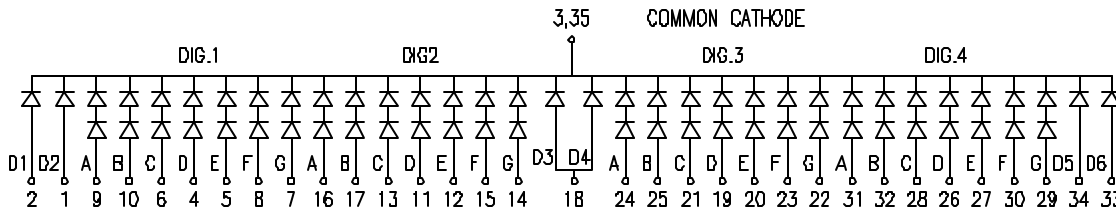
CHARATER DETAIL



LIMITS OF SAFE OPERATION AT 25°C PER DIE

| PARAMETER                | MAX        | UNITS      |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT*    | 80         | mA         |
| STEADY CURRENT           | 18         | mA         |
| POWER DISSIPATION        | 105        | mW         |
| DERATE FROM 25°C         | -1.2       | mW/°C      |
| OPERATING, STORAGE TEMP. | -30 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2.0mm FROM BODY          |            | 3 SEC. MAX |

\* t<10μS



\*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=  $\begin{matrix} +\text{DECIMAL PRECISION} \\ -0.00 \end{matrix}$  MAX=  $\begin{matrix} +0.00 \\ -\text{DECIMAL PRECISION} \end{matrix}$

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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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1.4" QUAD DIGIT, SEVEN SEGMENT, CLOCK DISPLAY,  
635nm RED CHIPS, RED FACE, AIR GAP,  
RED DIFFUSED SEGMENTS, COMMON CATHODE.

|                 |             |              |               |
|-----------------|-------------|--------------|---------------|
| DRAWN BY:<br>JC | CHECKED BY: | APPROVED BY: | DATE: 8.24.99 |
|                 |             |              | PAGE: 1 OF 1  |
|                 |             |              | SCALE: N/A    |