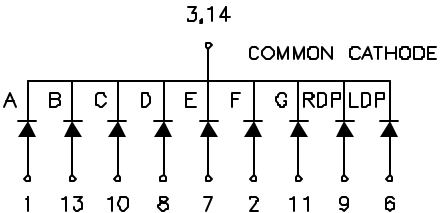
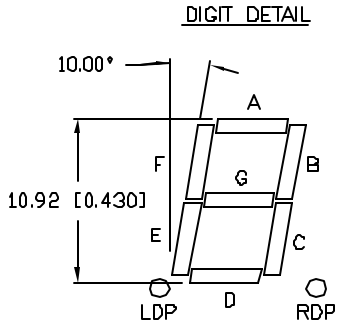
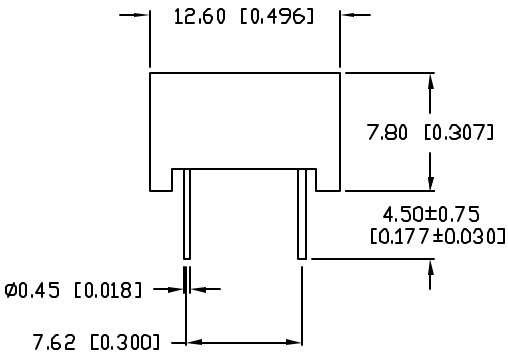
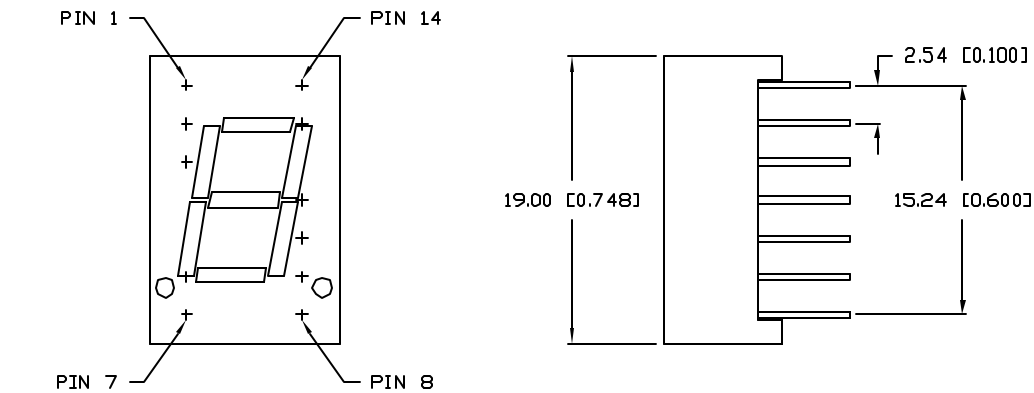


| DATE | REVISIONS | REV |
|------|-----------|-----|
|      |           |     |

| DRAWING NUMBER | REV |
|----------------|-----|
| LDS-C415RJ     |     |



NO PIN 4, 5 & 12

UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010''$ )

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

| PARAMETER       | MIN          | TYP       | MAX | UNITS          | TEST COND              |
|-----------------|--------------|-----------|-----|----------------|------------------------|
| PEAK WAVELENGTH |              | 700 (RED) |     | nm             |                        |
| FORWARD VOLTAGE |              | 2.0       | 2.5 | $V_f$          |                        |
| REVERSE VOLTAGE | 5.0          |           |     | $V_r$          | $I_r = 100\mu\text{A}$ |
| AXIAL INTENSITY |              | 600       |     | $\mu\text{cd}$ | $I_f = 10\text{mA}$    |
| EMITTED COLOR:  | RED          |           |     |                |                        |
| FONT COLOR:     | GREY         |           |     |                |                        |
| SEGMENT COLOR:  | RED DIFFUSED |           |     |                |                        |

## LIMITS OF SAFE OPERATION AT $25^\circ\text{C}$ PER CHIP

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | 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 |                      |

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

### 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.

A

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|                |      |        |       |
|----------------|------|--------|-------|
| DATE: 10-30-97 | DWN: | CHK'D: | APPD: |
| SCALE: N/A     |      |        |       |

0.43" SINGLE DIGIT, SEVEN SEGMENT DISPLAY, 700nm RED, GREY FONT/RED SEGMENTS, COMMON CATHODE.

|             |                           |     |
|-------------|---------------------------|-----|
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|-------------|---------------------------|-----|

JD