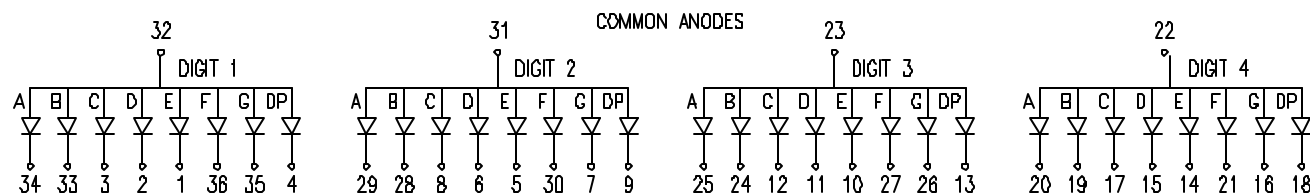
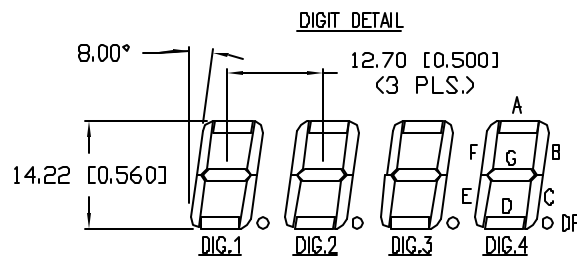
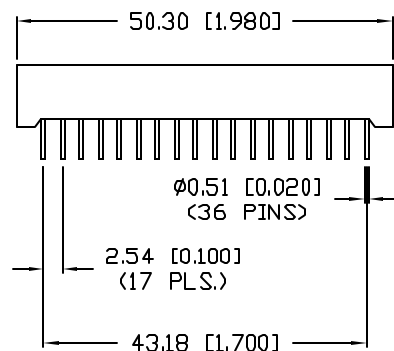
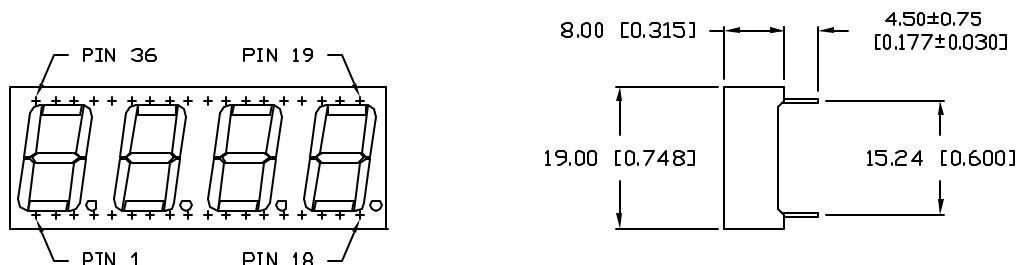


UNCONTROLLED DOCUMENT



|             |                                     |          |
|-------------|-------------------------------------|----------|
| PART NUMBER |                                     | REV.     |
| LDQ-A513R1  |                                     | A        |
| REV.        | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
| A           | E.C.N. #11148.                      | 03.20.07 |

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

| PARAMETER       | MIN                  | TYP          | MAX | UNITS          | TEST COND            |
|-----------------|----------------------|--------------|-----|----------------|----------------------|
| PEAK WAVELENGTH |                      | 585 (YELLOW) |     | nm             |                      |
| FORWARD VOLTAGE |                      | 2.1          | 2.5 | $V_f$          |                      |
| REVERSE VOLTAGE | 5.0                  |              |     | $V_r$          | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY |                      | 3900         |     | $\mu\text{cd}$ | $I_f=10\text{mA}$    |
| EMITTED COLOR:  | YELLOW               |              |     |                |                      |
| FACE COLOR:     | GRAY                 |              |     |                |                      |
| SEGMENT COLOR:  | MILKY WHITE 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           |

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

\*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.

A

PART NUMBER

LDQ-A513R1

## 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.



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APPROVED BY:

DATE: 5.11.99

PAGE: 1 OF 1

SCALE: N/A

0.56" QUAD DIGIT DISPLAY, RIGHT HAND DECIMAL.  
585nm YELLOW CHIPS, GRAY FACE, WHITE SEGMENTS.  
COMMON ANODE, DIRECT DRIVE.



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