

## **Excellent Integrated System Limited**

Stocking Distributor

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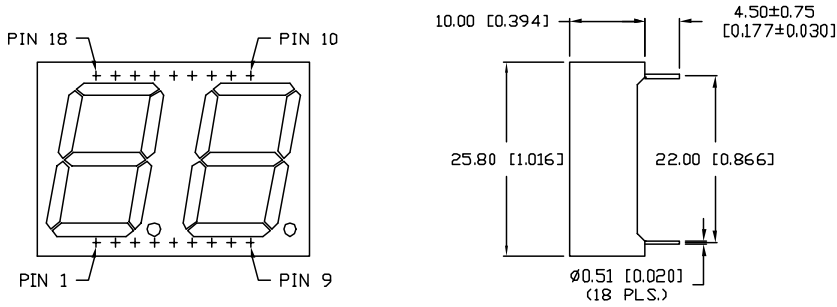
[Lumex, Inc.](#)  
[LDD-C816RI](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

UNCONTROLLED DOCUMENT

|                                      |                                     |      |
|--------------------------------------|-------------------------------------|------|
| (X) PART NUMBER<br><b>LDD-C816RI</b> |                                     | REV. |
| REV.                                 | E.C.N. NUMBER AND REVISION COMMENTS | DATE |



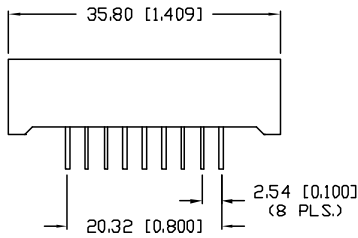
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$   $I_f=10\text{mA}$

| PARAMETER       | MIN                  | TYP       | MAX | UNITS          | TEST COND            |
|-----------------|----------------------|-----------|-----|----------------|----------------------|
| PEAK WAVELENGTH |                      | 660 (RED) |     | nm             |                      |
| FORWARD VOLTAGE |                      | 1.7       | 2.3 | $V_f$          |                      |
| REVERSE VOLTAGE | 4.0                  |           |     | $V_r$          | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY |                      | 13,000    |     | $\mu\text{cd}$ | $I_f=10\text{mA}$    |
| EMITTED COLOR:  | RED                  |           |     |                |                      |
| FACE COLOR:     | GRAY                 |           |     |                |                      |
| SEGMENT COLOR:  | MILKY WHITE DIFFUSED |           |     |                |                      |

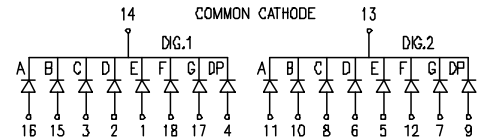
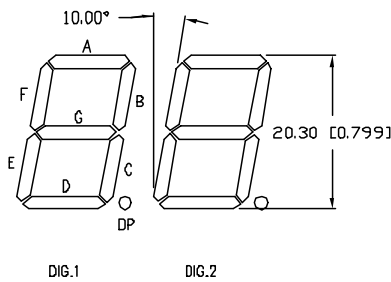
LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER                | MAX        | UNITS      |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT*    | 150        | mA         |
| STEADY CURRENT           | 30         | mA         |
| POWER DISSIPATION        | 105        | 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 |

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



CHARACTER DETAIL



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

|  |                                  |  |  |
|--|----------------------------------|--|--|
| REV.   | PART NUMBER<br><b>LDD-C816RI</b> | <p><b>CONFIDENTIAL INFORMATION</b><br/>         THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC. THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.</p> <p><b>RELIABILITY NOTE</b><br/>         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.</p> | <p><b>LUMEX INCORPORATED</b></p> <p>290 E. HELLEN ROAD<br/>         PALATINE, ILLINOIS 60067<br/>         PHONE: 1-847-359-2790<br/>         WEB: HTTP://WWW.LUMEX.COM</p> |
| 0.80" SEVEN SEGMENT, DUAL DIGIT DISPLAY, 660nm RED CHIPS, GRAY FACE WITH WHITE SEGMENTS, COMMON CATHODE, RIGHT DECIMAL PLACES. |                                  | DRAWN BY: <b>BC</b> CHECKED BY:    APPROVED BY:    DATE: 2.12-99<br>PAGE: 1 OF 1<br>SCALE: N/A   |  |