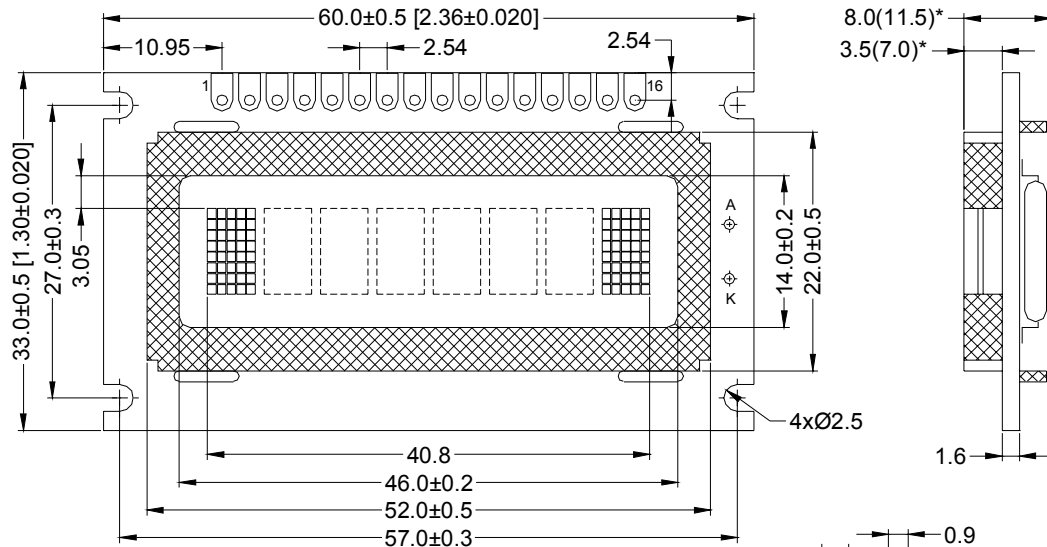
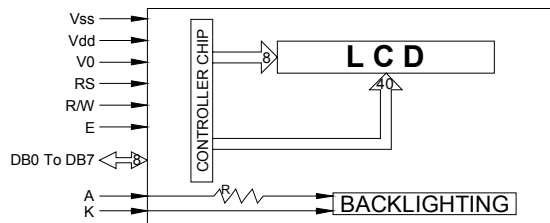


## LM08100 [8 x 1, 1/8 MUX]

DIMENSION IN MM



### BLOCK DIAGRAM



[\*] DIMENSIONS FOR LED BACKLIGHT VERSION

### TABULATED DATA

| MODEL          | DISPLAY FORMAT<br>CHAR. x LINE | FONT MATRIX<br>W x H | DRIVING<br>DUTY | DOT SIZE<br>W x H | CHARACTER SIZE<br>W x H | VIEWING AREA<br>W x H | PCB SIZE<br>W x H |
|----------------|--------------------------------|----------------------|-----------------|-------------------|-------------------------|-----------------------|-------------------|
| <b>LM08100</b> | 8 x 1                          | 5 x 8                | 1/8             | 0.80 x 0.90       | 4.40 x 7.90             | 46.0 x 14.0           | 60.0 x 33.0       |

### ELECTRICAL DATA (Ta = 25°C, Vdd = +5V ± 0.25V)

| ITEM                      | SYMBOL                          | TEST CONDITION          | STANDARD VALUES |      |                 | UNITS |
|---------------------------|---------------------------------|-------------------------|-----------------|------|-----------------|-------|
|                           |                                 |                         | MIN.            | TYP. | MAX.            |       |
| Input High Voltage        | V <sub>iH</sub>                 | -                       | 2.2             | -    | V <sub>dd</sub> | V     |
| Input Low Voltage         | V <sub>iL</sub>                 | -                       | -0.3            | -    | 0.6             | V     |
| Output High Voltage       | V <sub>oH</sub>                 | I <sub>oH</sub> = 0.2mA | 2.4             | -    | -               | V     |
| Output Low Voltage        | V <sub>oL</sub>                 | I <sub>oL</sub> = 1.2mA | -               | -    | 0.4             | V     |
| Supply Current            | I <sub>dd</sub>                 | V <sub>dd</sub> = 5.0V  | -               | 1.2  | 2.0             | mA    |
| Operating Voltage for LCD | V <sub>dd</sub> -V <sub>o</sub> | Ta = 0°C                | -               | 4.7  | -               | V     |
|                           |                                 | Ta = 25°C               | -               | 4.5  | -               | V     |
| LED Backlight Current     | I <sub>LED</sub>                | V <sub>dd</sub> = 5.0V  | 30              | 40   | 60              | mA    |

### PIN DETAILS

| PIN No. | DESCRIPTION | PIN No. | DESCRIPTION   |
|---------|-------------|---------|---------------|
| 1       | Gnd         | 5       | R / $\bar{W}$ |
| 2       | Vcc         | 6       | E             |
| 3       | Vo          | 7 to 14 | DB0 to DB7    |
| 4       | RS          | 15 & 16 | LED BL A & K  |

### MAX. RATING

| Item            | MAX.         |
|-----------------|--------------|
| Top             | -15 to +65°C |
| Tst             | -20 to +70°C |
| V <sub>dd</sub> | +5 Volts     |
| RH%             | 90 %         |

### OPTIONAL DETAILS

Wide configurations available. Kindly contact **LAMPPEX** while ordering. Refer **LAMPPEX LCM Catalog** for more information. **LAMPPEX** reserves all rights. Specification might alter without prior notice.

**CAUTION: STATIC SENSITIVE DEVICES**