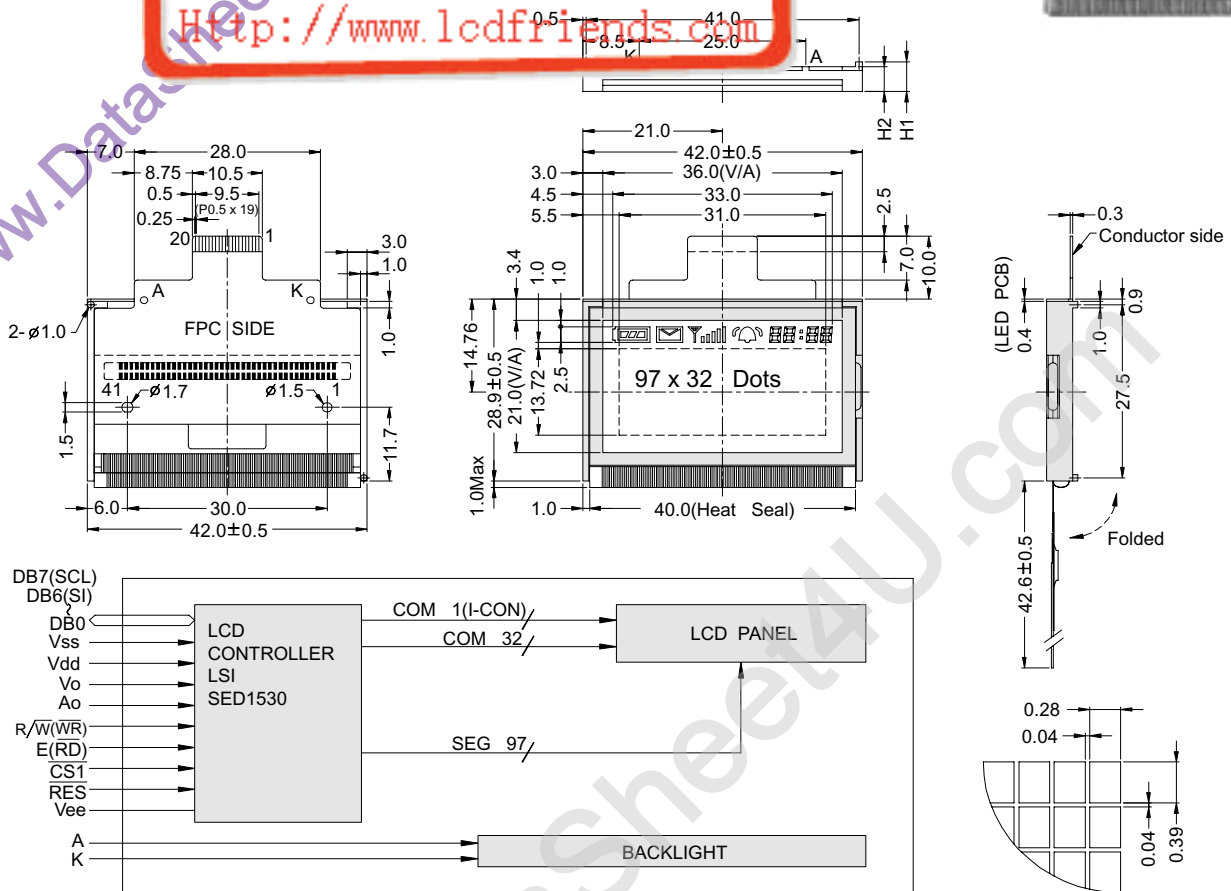




## OUTLINE DIMENSION & BLOCK DIAGRAM

液晶之友 电话: 020-33819057

Http://www.lcdfriends.com



The tolerance unless classified  $\pm 0.3\text{mm}$

| MECHANICAL SPECIFICATION |             |           |           |
|--------------------------|-------------|-----------|-----------|
| Overall Size             | 42.0 x 39.9 | Module    | H2 / H1   |
| View Area                | 36.0 x 21.0 | W / O B/L | - / -     |
| Dot Size                 | 0.28 x 0.39 | EL B/L    | - / -     |
| Dot Pitch                | 0.32 x 0.43 | LED B/L   | 3.9 / 4.7 |

| PIN ASSIGNMENT |                  |                              |
|----------------|------------------|------------------------------|
| Pin no.        | Symbol           | Function                     |
| 1              | Vss              | Power supply(GND)            |
| 2              | Vdd              | Power supply(+)              |
| 3              | Vo               | Contrast Adjust              |
| 4              | A0               | Command / data input         |
| 5              | $\overline{WR}$  | Data write / (R/W)           |
| 6              | $\overline{RD}$  | Data read / (E)              |
| 7-14           | DB0-DB7          | Data bus line                |
| 15             | $\overline{CS1}$ | Chip select                  |
| 16             | $\overline{RES}$ | Reset                        |
| 17             | Vee              | Negative voltage             |
| 18             | NC               | No Connection                |
| 19             | A                | Power supply for LED B/L (+) |
| 20             | K                | Power supply for LED B/L (—) |

| ABSOLUTE MAXIMUM RATING          |           |           |      |   |         |     |       |   |       |
|----------------------------------|-----------|-----------|------|---|---------|-----|-------|---|-------|
| Item                             | Symbol    | Condition | Min. |   | Max.    |     | Units |   |       |
| Supply for logic voltage         | Vdd-Vss   | 25°C      | -0.3 |   | 7.0     |     | V     |   |       |
| LCD driving supply voltage       | Vdd-Vee   | 25°C      | -0.3 |   | 18.0    |     | V     |   |       |
| Input voltage                    | Vin       | 25°C      | -0.3 |   | Vdd+0.3 |     | V     |   |       |
| ELECTRICAL CHARACTERISTICS       |           |           |      |   |         |     |       |   |       |
| Item                             | Symbol    | Condition | Min. |   | Typical |     | Max.  |   | Units |
| Power supply voltage             | Vdd-Vss   | 25°C      | 2.7  |   | —       |     | 5.5   |   | V     |
| LCD operation voltage            | Vop       | Top       | N    | W | N       | W   | N     | W | V     |
|                                  |           | -20°C     | —    | — | —       | —   | —     | — | V     |
|                                  |           | 0°C       | —    | — | —       | —   | —     | — | V     |
|                                  |           | 25°C      | —    | — | —       | 6.5 | —     | — | V     |
|                                  |           | 50°C      | —    | — | —       | —   | —     | — | V     |
|                                  |           | 70°C      | —    | — | —       | —   | —     | — | V     |
| LCM current consumption (No B/L) | Idd       | Vdd=5V    | —    |   | 0.5     |     | 1     |   | mA    |
| Backlight current consumption    | LED/edge  | VB/L=2.1V | —    |   | 80      |     | —     |   | mA    |
|                                  | LED/array | VB/L=4.2V | —    |   | —       |     | —     |   | mA    |

### REMARK

LCD option: STN, TN, FSTN

Backlight Option: LED,EL Backlight feature, other Specs not available on catalog is under request.