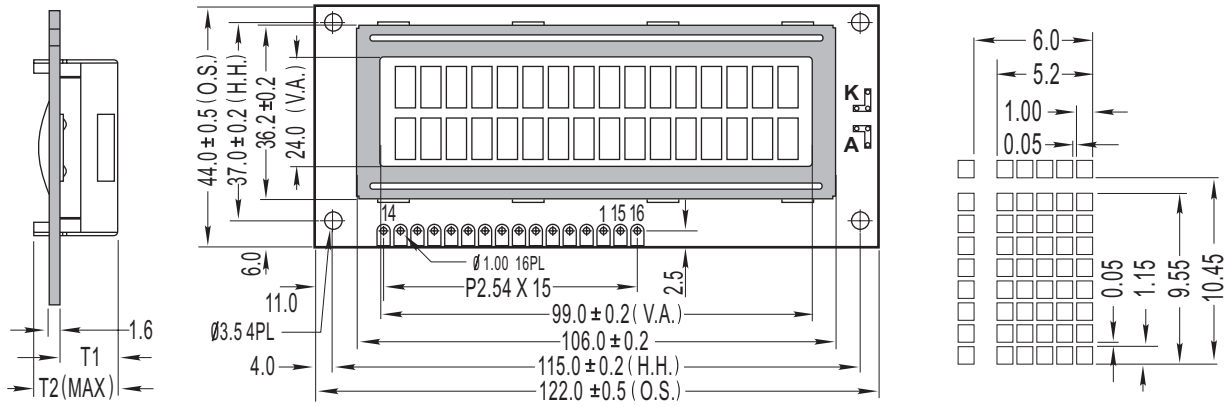
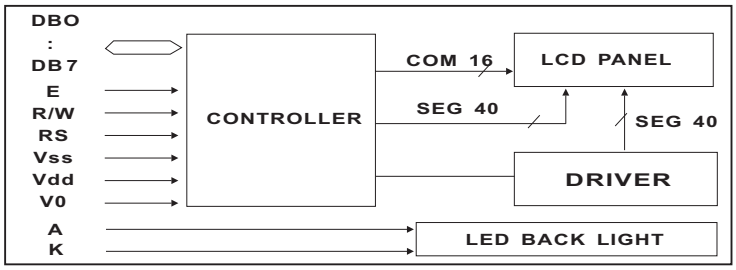
# FORDATA ELECTRONIC CO.,LTD

**PROFESSIONAL LCD SUPPLIER FROM CHINA**

# FDCC1602A




| ITEM | T1 | T2 |
|---|---|---|
| LED backlight | 8.6 | 13.5 |
| EL / without backlight | 4.6 | 9.5 |




## FEATURE

1. 5X8 dots with cursor
2. Built- in controller (SPLC780D or Equivalent)
3. +5V power supply (Also available for +3.0V)
4. 1/16 duty cycle
5. BKL to be driven by pin1,pin2,or pin15,pin16 or A,K
6. N.V. Optional

## ABSOLUTE MAXIMUM RATINGS

| ITEM | SYMBOL | MIN | MAX | UNIT |
|---|---|---|---|---|
| POWER SUPPLY (LOGIC) | Vdd | -0.3 | 7.0 | V |
| POWER SUPPLY (LCD) | V0 | Vdd -13.5 | Vdd +0.3 | V |
| INPUT VOLTAGE | Vin | -0.3 | Vdd +0.3 | V |

## PIN ASSIGNMENT

| PIN | SYMBOL | FUNCTION |
|---|---|---|
| 1 | Vss | GND |
| 2 | Vdd | Power Supply |
| 3 | V0 | Contrast Adjust |
| 4 | RS | Register Select Signal |
| 5 | R/W | Data Read/Write |
| 6 | E | Enable Signal |
| 7-14 | DB0-DB7 | Data Bus Line |
| 15(A) | LED+ | Power supply for BKL(+) |
| 16(K) | LED- | Power supply for BKL(-) |

## MECHANICAL SPECIFICATIONS

| | | |
|---|---|---|
| CHARACTER NUMBER | 16W X 2H | — |
| OVERALL SIZE | 122.00W X 44.00H | mm |
| VIEWING AREA | 99.00W X 24.00H | mm |
| HOLE - HOLE | 115.00W X 37.00H | mm |
| CHARACTER SIZE | 5.20W X 9.55H | mm |
| CHARACTER PITCH | 0.80W X 0.90H | mm |
| DOT SIZE | 1.00W X 1.15H | mm |
| DOT PITCH | 0.05W X 0.05H | mm |

## ELECTRONICAL CHARACTERISTICS

| ITEM | SYMBOL | CONDITION | STANDARD | | | UNIT |
|---|---|---|---|---|---|---|
| | | | MIN | TYP | MAX | |
| *Input voltage* | Vdd | +5V | 4.7 | 5.0 | 5.5 | V |
| | | +3.3V | 2.7 | 3.0 | 3.3 | V |
| *Supply current* | Idd | Vdd=5V | --- | 1.5 | 4.0 | mA |
| *Recommended LCD driving voltage for normal temp version module* | Vdd-V0 | 0 °C | 4.7 | 5.0 | 5.5 | V |
| | | 25 °C | 4.3 | 4.5 | 4.7 | |
| | | 50 °C | 4.1 | 4.3 | 4.5 | |
| LED forward voltage | $V_F$ | 25 °C | --- | 4.2 | 4.6 | V |
| LED forward current | $I_F$ | 25 °C | --- | 240 | --- | mA |
| *EL power supply current* | EL | AC 400Hz $V_{EL}$ =110V | ---- | --- | --- | mA |

## DISPLAY CHARACTER ADDRESS CODE

| *Display position* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *DDRAM address* | 00 | 01 | 02 | -- | -- | -- | -- | -- | | | | | | | | 0F |
| *DDRAM address* | 40 | 41 | 42 | -- | -- | -- | -- | -- | | | | | | | | 4F |