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[Http://www.100y.com.tw](http://www.100y.com.tw)

Item # LMC-STC2E16/SSC2E16

## FEATURES

16 CHARACTERS X 2 LINES

1/16 DUTY

1/4 BIAS

|                      |                        |
|----------------------|------------------------|
| LCD MODE             | TN/STN                 |
| BACKLIGHT TYPE       | LED/EL BACKLIGHT       |
| CHARACTER FONTS      | 5x8 DOTS (WITH CURSOR) |
| CONTROLLER           | NT3881 OR EQUIVALENT   |
| POWER SUPPLY FOR LCM | DC +5V                 |
| LED BACKLIGHT INPUT  | DC +5V                 |
| EL BACKLIGHT INPUT   | AC90~100V(400~700HZ)   |
| EL INVERTER          | I001A(I001B)           |

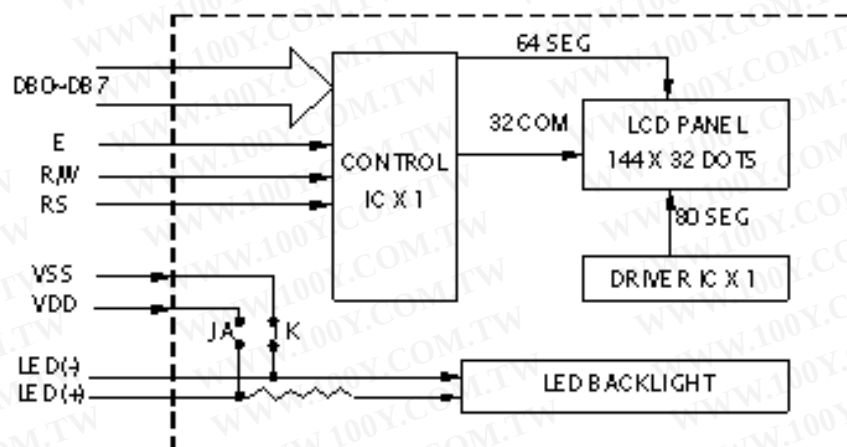
## ELECTRICAL CHARACTERISTICS

| ITEM                   | SYM    | CONDITION | MIN | TYP | MAX | UNIT |
|------------------------|--------|-----------|-----|-----|-----|------|
| SUPPLY VOLTAGE FOR LCD | VDD-VO | Ta=0℃J    | -   | 4.6 | -   | V    |
|                        |        | Ta=25℃J   | -   | 4.4 | -   | V    |
|                        |        | Ta=50℃J   | -   | 4.2 | -   | V    |
| INPUT VOLTAGE          | VI     | -         | 4.5 | 5.0 | 5.5 | V    |
| INPUT HIGH VOL         | VIH    | -         | 2.2 | -   | VDD | V    |
| INPUT LOW VOL          | VIL    | -         | 0   | -   | 0.6 | V    |
| OUTPUT HIGH VOL        | VOH    | -         | 2.4 | -   | -   | V    |
| OUTPUT LOW VOL         | VOL    | -         | -   | -   | 0.4 | V    |
| SUPPLY CURRENT         | IDD    | VDD=5v    | -   | 3.0 | 4.5 | mA   |
| LED CURRENT            | IF     | Ta=25℃J   | -   | 100 | -   | mA   |
| LED DISSIPATION        | PD     | Ta=25℃J   | -   | 500 | -   | mW   |

## ABSOLUTE MAXIMUM RATINGS

| ITEM             | SYMBOL  | MIN | TYP | MAX | UNIT |
|------------------|---------|-----|-----|-----|------|
| OPERATING TEMP.  | TOP     | 0   | -   | 50  | ℃J   |
| STORAGE TEMP.    | TST     | -10 | -   | 60  | ℃J   |
| INPUT VOLTAGE    | VI      | VSS | -   | VDD | V    |
| SUPPLY VOL-LOGIC | VDD-VSS | -   | 5.0 | 6.5 | V    |
| SUPPLY VOL-LCD   | VDD-VO  | -   | -   | 6.5 | V    |

## BLOCK DIAGRAM



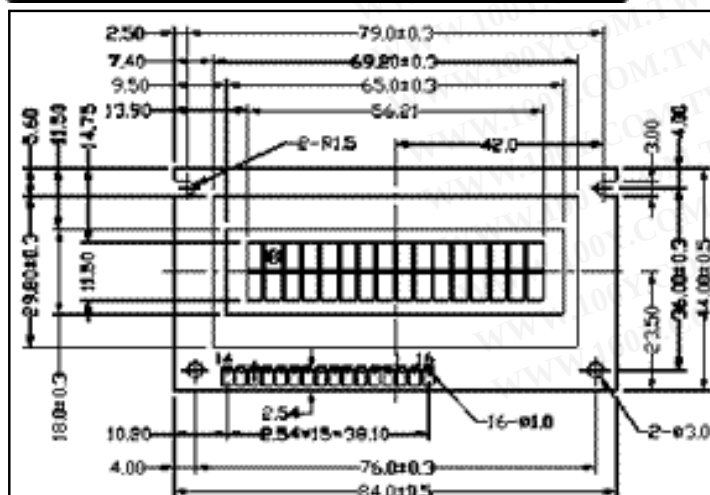
## INTERFACE PIN CONNECTIONS

| NO | SYM | LEVEL  | FUNCTION        | NO | SYM  | LEVEL | FUNCTION  |
|----|-----|--------|-----------------|----|------|-------|-----------|
| 1  | VSS | -      | 0V              | 9  | DB2  | H/L   | DATA BIT2 |
| 2  | VDD | -      | 5V              | 10 | DB3  | H/L   | DATA BIT3 |
| 3  | VO  | -      | CONTRAST ADJ    | 11 | DB4  | H/L   | DATA BIT4 |
| 4  | RS  | H/L    | REGISTER SELECT | 12 | DB5  | H/L   | DATA BIT5 |
| 5  | R/W | H/L    | READ/WRITE      | 13 | DB6  | H/L   | DATA BIT6 |
| 6  | E   | H.H->L | ENABLE SIGNAL   | 14 | DB7  | H/L   | DATA BIT7 |
| 7  | DB0 | H/L    | DATA BIT0       | 15 | A(+) | 5V    | BACKLIGHT |
| 8  | DB1 | H/L    | DATA BIT1       | 16 | K(-) | 0V    | BACKLIGHT |

## DISPLAY CHARACTER ADDRESS CODE

|    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| L1 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 8A | 8B | 8C | 8D | 8E | 8F |
| L2 | C0 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | CA | CB | CC | CD | CE | CF |

## DIMENSIONAL DRAWING



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