



# BC1602E



## Feature

1. COB with metal frame
2. 5x7 dots with cursor
2. Built-in controller KS0066 or equivalent
4. + 5V single power supply
5. 1/16 duty cycle
6. LED B/L pins:15/16, or A/K, or 1/2
7. Option: LED array / EL B/L
8. Option: +3V single power supply
9. Option: negative voltage (built-in, external)



## Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 122.0 x 44.0   | mm   |
| Viewing Area     | 99.0 x 24.0    | mm   |
| Dot Size         | 0.92 x 1.10    | mm   |
| Character Size   | 4.84 x 9.66    | mm   |

## Pin Assignment

| Pin  | Symbol | Function                   |
|------|--------|----------------------------|
| 1    | Vss    | GND                        |
| 2    | Vdd    | +5V(+3V option)            |
| 3    | Vo     | Contrast adjustment        |
| 4    | RS     | H/L register select signal |
| 5    | R/W    | H/L read/write signal      |
| 6    | E      | H --> L enable signal      |
| 7~14 | DB0~7  | H/L data bus line          |
| 15   | A      | Power supply for B/L (+)   |
| 16   | K      | Power supply for B/L (GND) |

## Electronic Characteristics

| Item                | Symbol | Condition        | Typical Value | Unit |
|---------------------|--------|------------------|---------------|------|
| Input Voltage       | Vdd    | Vdd = +5V        | 5.0           | V    |
| Supply Current      | Idd    | Vdd = +5V        | 1.2           | mA   |
| LCD Driving Voltage | Vdd-Vo | 25°C             | 4.2           | V    |
| LED Forward Voltage | Vf     | 25°C             | 4.2           | V    |
| LED Forward Current | If     | 25°C             | 280           | mA   |
| EL Power Current    | Vel    | Vel=110Vac/400Hz |               | V    |

## Dimension

