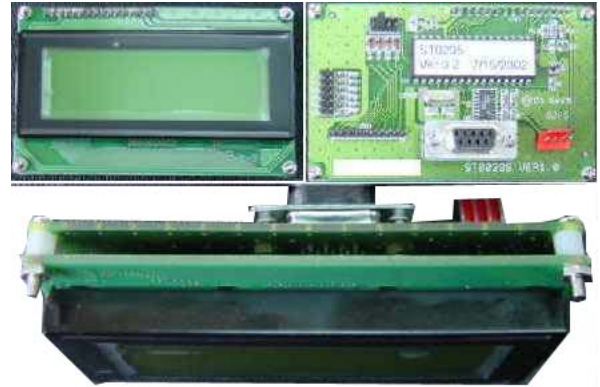


# BC2004A20



## Feature

1. COB with metal frame
2. 5x7 dots with cursor
3. Built-in controller KS0066 or equivalent
4. + 5V single power supply
5. 1/16 duty cycle
6. RS232 interface
7. Option: I2C interface
8. Option: LED,EL backlight



## Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 98.0 x 60.0    | mm   |
| Viewing Area     | 77.0 x 25.2    | mm   |
| Dot Size         | 0.55 x 0.55    | mm   |
| Character Size   | 2.95 x 4.75    | mm   |

## Pin Assignment RS232

| Pin | Symbol   | Function          |
|-----|----------|-------------------|
| 2   | Data Out | Data out from LCM |
| 3   | Data In  | Data from user    |
| 5   | GND      | Ground            |

## Pin Assignment PORT2

| Pin | Symbol    | Function                  |
|-----|-----------|---------------------------|
| 1   | 5V        | 5V input for LCM          |
| 2   | I2C clock | I2C interface clock input |
| 3   | I2C data  | I2C interface data input  |
| 4   | GND       | GND for LCM               |

## Electronic Characteristics

| Item                | Symbol | Condition        | Typical Value | Unit |
|---------------------|--------|------------------|---------------|------|
| Input Voltage       | Vdd    | Vdd = +5V        | 5.0           | V    |
| Supply Current      | Idd    | Vdd = +5V        | 20.0          | mA   |
| LCD Driving Voltage | Vdd-Vo | 25°C             | 4.5           | V    |
| LED Forward Voltage | Vf     | 25°C             | 4.2           | V    |
| LED Forward Current | If     | 25°C             | 280           | mA   |
| EL Power Voltage    | Vel    | Vel=110Vac/400Hz |               | V    |

## Dimension

