

### Part number list

WH2004D-□□□-□□□#

BC2004D □□□□□\$

### Feature

1. Built-in controller ST7066 or equivalent
2. +5V single power supply
3. (Option) +3V power supply
4. (Option) negative voltage for +3V power
5. (Option) SPI, I2C interface

### Pin Assignment

Pin No.	Symbol	Description
1	V <sub>SS</sub>	Ground
2	V <sub>DD</sub>	Power supply for logic
3	V <sub>O</sub>	Contrast Adjustment
4	RS	Data/ Instruction select signal
5	R/W	Read/Write select signal
6	E	Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	A	Power supply for B/L +
16	K	Power supply for B/L -

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	77.0 x 47.0	mm
Viewing Area	60.0 x 22.0	mm
Dot Size	0.42 x 0.46	mm
Character Size	2.30 x 4.03	mm

### Electrical Characteristics

Item	Symbol	Standard Value	Unit
		typ.	
Input Voltage	V <sub>DD</sub>	5	V
Recommended LCD Driving Voltage for Normal Temp. Version module @ 25°C	V <sub>DD</sub> -V <sub>O</sub>	4.5	V

### Mechanical Drawing

