

### Part number list

WG12232L-□□□-□□#

### Feature

1. Built-in controller ST7920
2. Built-in oscillation
3. +5V single power supply
4. 6800 / SPI interface
5. Built-in Chinese font

### 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       | V <sub>out</sub> | Positive Voltage output             |
| 6       | NC               | No connection                       |
| 7       | NC               | No connection                       |
| 8       | E                | Enable signal                       |
| 9       | R/W              | Read/Write select signal            |
| 10      | DB0              | Data bus line                       |
| 11      | DB1              | Data bus line                       |
| 12      | DB2              | Data bus line                       |
| 13      | DB3              | Data bus line                       |
| 14      | DB4              | Data bus line                       |
| 15      | DB5              | Data bus line                       |
| 16      | DB6              | Data bus line                       |
| 17      | DB7              | Data bus line                       |
| 18      | /RES             | Controller reset signal, Active Low |
| 19      | A                | Power supply for B/L +              |
| 20      | K                | Power supply for B/L -              |

### Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 84.0 x 44.0    | mm   |
| Active Area      | 53.64 x 15.64  | mm   |
| Dot Pitch        | 0.44 x 0.49    | mm   |
| Dot Size         | 0.40 x 0.45    | mm   |

### Electrical Characteristics

| Item  | Symbol                          | Standard Value | Unit |
|---|---------------------------------|----------------|------|
|   |                                 | typ.           |      |
| Input Voltage   | V <sub>DD</sub>                 | 5.0            | V    |
| Recommended LCD Driving Voltage for Normal Temp. Version module @25°C | V <sub>DD</sub> -V <sub>O</sub> | 4.4            | V    |

### Mechanical Drawing

