



**PIN CONNECTIONS**

| Pin | Symbol          | Level | Function  |
|-----|-----------------|-------|---|
| 1   | V <sub>SS</sub> | 0V    | Ground  |
| 2   | V <sub>DD</sub> | 3.3V  | Power supply for Logic  |
| 3   | V <sub>O</sub>  | -     | OLED Display voltage  |
| 4   | A0              | H/L   | Data/Command select   |
| 5   | /WR             | L     | 8080: Write signal  |
| 6   | /RD             | L     | 8080: Read signal   |
| 7   | DB0             | H/L   | Data bus line   |
| 14  | DB7             |       | Serial mode :D1-SI<br>D0-SCL  |
| 15  | /CS             | L     | Chip enable signal  |
| 16  | /REST           | L     | Reset signal ,active "L"  |
| 17  | BS1             | H/L   | BS1, BS2 interface select:<br>01:6800 parallel<br>11:8080 parallel<br>00: Serial 10: I <sup>2</sup> C |
| 18  | BS2             |       |   |

**NOTES:**

1. Built-in SSD1305 controller
2. 3.3V power supply optional
3. Parallel / Serial interface optional
4. Display color :YELLOW/BLUE

**MECHANICAL DATA**

| Item                    | Nominal Dimensions | Unit |
|-------------------------|--------------------|------|
| Module Size (W x H x T) | 66.5X31.45X7.4     | mm   |
| Viewing Area (W x H)    | 57.0X15.1          | mm   |
| Dot Pitch (W x H)       | 0.43X0.41          | mm   |
| Dot Size (W x H)        | 0.41X0.39          | mm   |

**ABSOLUTE MAXIMUM RATINGS**

| Item                   | Symbol                           | Min. | Max.            | Unit |
|------------------------|----------------------------------|------|-----------------|------|
| Supply Voltage (Logic) | V <sub>DD</sub> -V <sub>SS</sub> | 0    | 3.5             | V    |
| Supply Voltage(OLED)   | V <sub>CC</sub> -V <sub>SS</sub> | 0    | 15.0            | V    |
| Input Voltage          | V <sub>I</sub>                   | 0    | V <sub>DD</sub> | V    |
| Operating Temp.        | T <sub>OPR</sub>                 | -30  | +70             | °C   |
| Storage Temp.          | T <sub>STG</sub>                 | -40  | +80             | °C   |

**ELECTRICAL CHARACTERISTICS ( V<sub>DD</sub>=3.3V, Ta=25°C )**

| Item                       | Symbol                           | Min.                | Typ. | Max.               | Unit |
|----------------------------|----------------------------------|---------------------|------|--------------------|------|
| Input High Voltage         | V <sub>IH</sub>                  | 0.8 V <sub>DD</sub> | -    | V <sub>DD</sub>    | V    |
| Input Low Voltage          | V <sub>IL</sub>                  | V <sub>SS</sub>     | -    | 0.2V <sub>DD</sub> | V    |
| Output High Voltage        | V <sub>OH</sub>                  | 0.9 V <sub>DD</sub> | -    | V <sub>DD</sub>    | V    |
| Output Low Voltage         | V <sub>OL</sub>                  | V <sub>SS</sub>     | -    | 0.1V <sub>DD</sub> | V    |
| Supply Current             | I <sub>DD</sub>                  | -                   | 45   | -                  | mA   |
| OLED Display Voltage(BLUE) | V <sub>CC</sub> -V <sub>SS</sub> | 12.0                | 12.5 | 13.0               | V    |