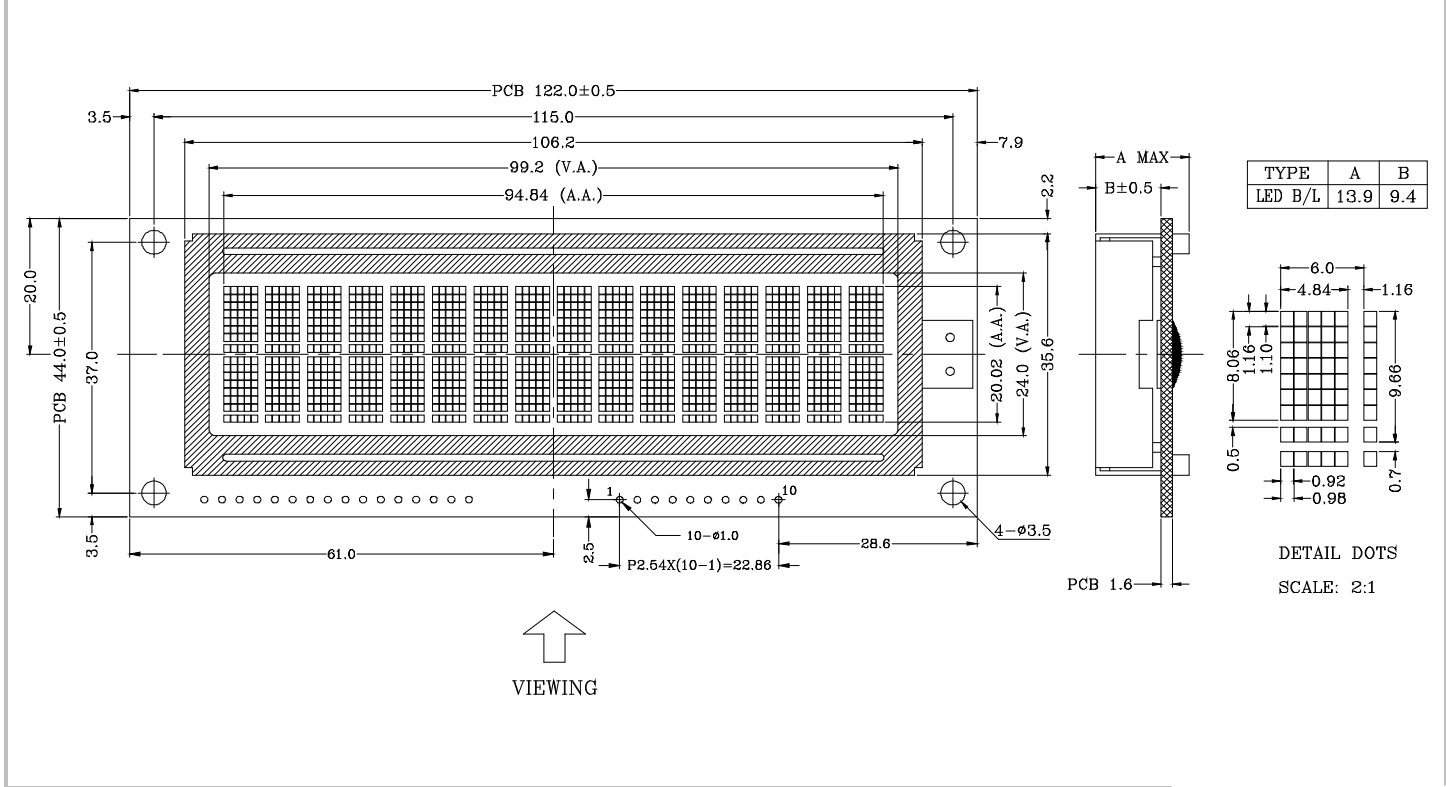


Outline Dimension



Character Type

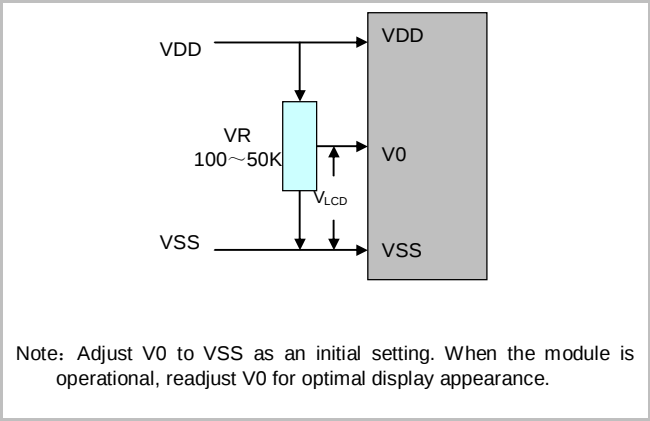
Feature:

- 1、16X2 Characters
- 2、STN/TRANSFLECTIVE/POSITIVE/Y-G
- 3、Yellow-green/bottom-light (LED)
- 4、Operating Temp.: 0℃~+50℃
- 5、1/16 duty cycle, 1/5 Bias
- 6、Built-in Controller (ST7070 or equivalent)
- 7、Viewing angle: 6 o'clock

Absolute Maximum Rating:

| Item                   | Symbol                           | Standard value  |                 |                 | Unit |
|------------------------|----------------------------------|-----------------|-----------------|-----------------|------|
|                        |                                  | M <sub>IN</sub> | T <sub>YP</sub> | M <sub>AX</sub> |      |
| Power supply for logic | V <sub>DD</sub> -V <sub>SS</sub> | -0.3            | --              | 7.0             | V    |
| Input voltage          | V <sub>I</sub>                   | -0.3            | --              | VDD+0.3         | V    |

Adjusting Display Contrast:



Electrical Characteristic:

(VSS=0V, Ta = 25℃)

| Parameter                    | Symbol           | Condition | M <sub>IN</sub> | T <sub>YP</sub> | M <sub>AX</sub> | Unit |
|------------------------------|------------------|-----------|-----------------|-----------------|-----------------|------|
| Supply voltage for logic     | V <sub>DD</sub>  | --        | 3.1             | 3.3             | 3.5             | V    |
| Supply current for logic     | I <sub>DD</sub>  | --        | --              | 1.5             | --              | mA   |
| Operating voltage for LCD    | V <sub>LCD</sub> | 0℃        | --              | --              | --              | V    |
|                              |                  | +25℃      | --              | 3.0             | --              | V    |
|                              |                  | +50℃      | --              | --              | --              | V    |
| Supply voltage for Backlight | V <sub>BL</sub>  | --        | --              | 5.0             | --              | V    |
| Supply current for Backlight | I <sub>BL</sub>  | --        | --              | 240             | --              | mA   |

Interface Pin Connections:

| Pin No. | Symbol | Level | Description                                                                                                                                              |
|---------|--------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | VSS    | 0V    | Ground.                                                                                                                                                  |
| 2       | VDD    | +3.3V | Supply voltage for logic operating.                                                                                                                      |
| 3       | V0     | --    | Adjusting voltage for LCD driving (variable).                                                                                                            |
| 4       | /CS    | H/L   | Chip select pin for serial mode:<br>When serial interface select, Active LOW.                                                                            |
| 5       | CLK    | H/L   | Clock input                                                                                                                                              |
| 6       | SI     | H/L   | Data input                                                                                                                                               |
| 7       | RS     | H/L   | A signal for selecting registers:<br>1: Data Register (for read and write)<br>0: Instruction Register (for write), Busy flag-Address Counter (for read). |
| 8       | /RST   | H/L   | Hardware reset pin, low active.                                                                                                                          |
| 9       | LED+   | +5.0V | Power supply for Backlight                                                                                                                               |
| 10      | LED-   | 0V    | The backlight ground                                                                                                                                     |