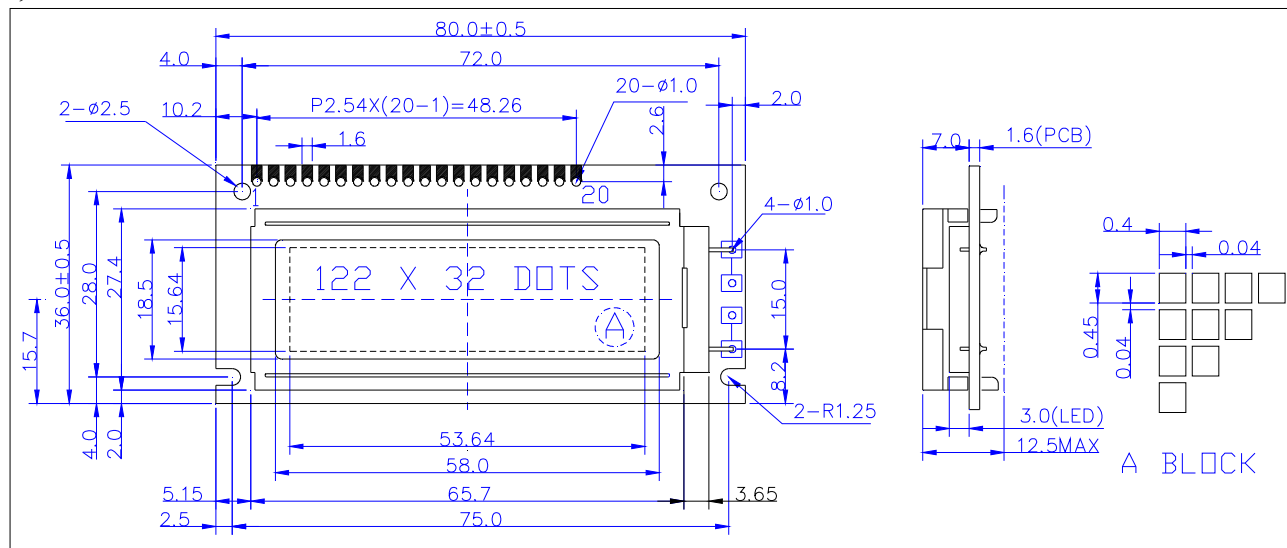


## 1, OUTLINE DRAWING



## 2, BLOCK DIAGRAM

## 3, DISPLAY CHARACTERISTICS

|                  |                            |
|------------------|----------------------------|
| LCD Display mode | FSTN-Transmissive-Negative |
| Driving method   | 1/32 Buty, 1/5 Bias        |
| Backlight        | LED White                  |

## 4, ELECTRICAL CHARACTERISTICS

| Item                          | Symbol           | Min.               | Typ. | Max.               |
|-------------------------------|------------------|--------------------|------|--------------------|
| Logic Power Supply Voltage(V) | V <sub>DD</sub>  |                    | 5.0  |                    |
| Input Voltage(V)              | V <sub>Ih</sub>  | 0.7V <sub>DD</sub> |      | V <sub>DD</sub>    |
| Output Voltage(V)             | V <sub>Il</sub>  | 0                  |      | 0.3V <sub>DD</sub> |
| LCD Driving Voltage(V)        | V <sub>lcd</sub> |                    | 6.5  |                    |

## 5, TERMINAL FUNCTIONS

| Pin  | Name    | Level | Functions   |
|------|---------|-------|---|
| 1    | VSS     | -     | Power supply (GND)                                |
| 2    | VDD     | -     | Power supply                                      |
| 3    | NC      | -     | No connect  |
| 4    | A0      | H/L   | Data/Command                                      |
| 5    | E1      | H     | Enable Signal for IC1                             |
| 6    | E2      | H     | Enable Signal for IC2                             |
| 7    | R/W     | H/L   | H: Read(Module to Mpu)<br>L: Write(Mpu to Module) |
| 8-15 | DB0-DB7 | H/L   | Data bus  |
| 16   | /RST    | L     | Reset signal                                      |
| 17   | LED+    | -     | Power supply for LED B/L                          |
| 18   | LED-    | -     | Power supply for LED B/L                          |
| 19   | NC      | -     | No connect  |
| 20   | NC      | -     | No connect  |

## 6, BACKLIGHT CHARACTERISTICS

| Item                          | Symbol         | Min. | Typ.  | Max. | Condition           |
|-------------------------------|----------------|------|-------|------|---------------------|
| Forward Current (mA)          | I <sub>f</sub> |      | 30    |      | V <sub>f</sub> =5.0 |
| Luminous (cd/m <sup>2</sup> ) | I <sub>V</sub> |      | 300   |      |                     |
| Color                         |                |      | White |      |                     |