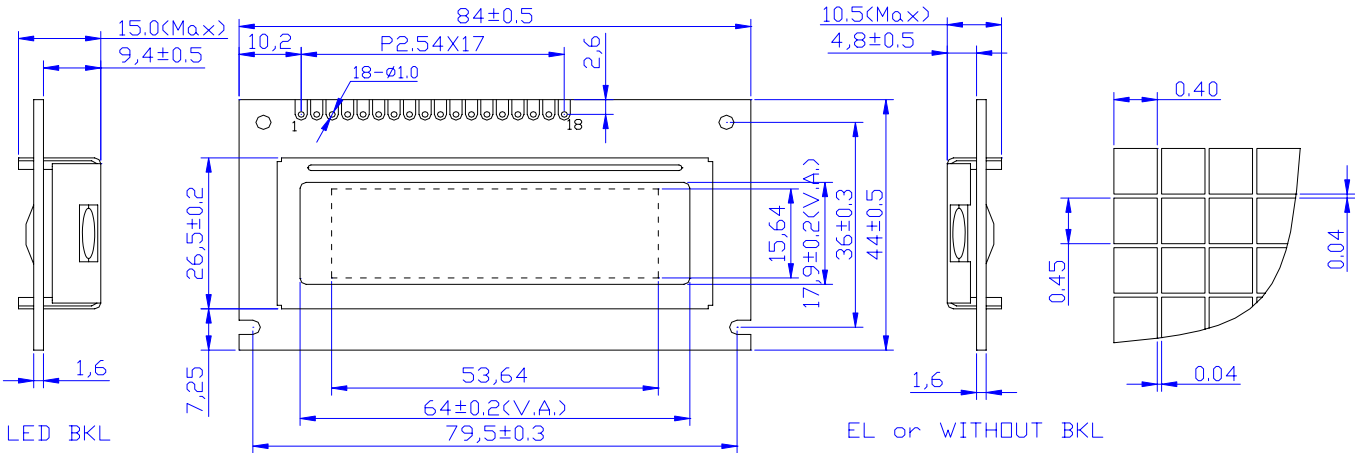
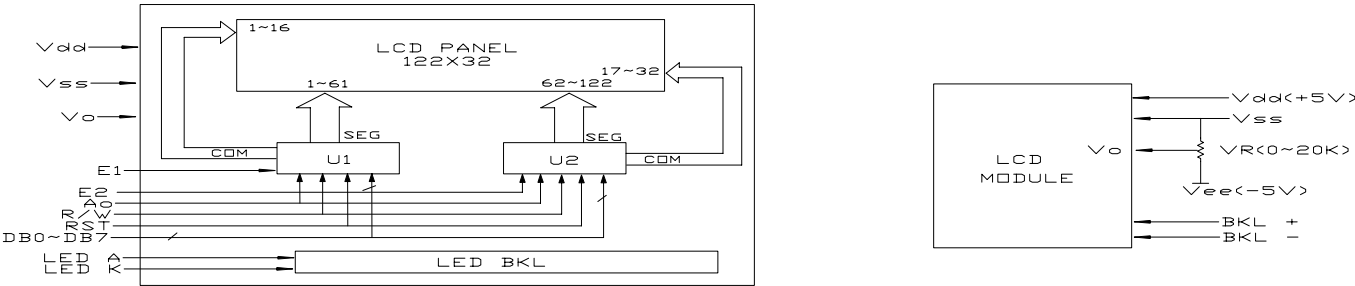


◆OUTLINE DIMENSION



◆BLOCK DIAGRAM & POWER SUPPLY



◆MECHANICAL SPEC. & FEATURES

| Item               | Dimension(mm)       | Features        |                                         |
|--------------------|---------------------|-----------------|-----------------------------------------|
| Module Size(W×H×T) | 84.0×44.0×10.5/15.0 | LC Fluid        | STN (Yellow-green, Gray, Blue), FSTN    |
| Viewing Area(W×H)  | 64.0×17.9           | Polarizer       | Reflective, Transflective, Transmissive |
| Dot Size(W×H)      | 0.40×0.45           | View Angle      | 6:00 o'clock or 12:00 o'clock           |
| Dot Pitch(W×H)     | 0.44×0.49           | Display Type    | Positive or Negative                    |
| Dots×Dots          | 122×32              | Backlight       | LED (Optional)                          |
|                    |                     | Operating Temp. | 0℃~50℃ or -20℃~70℃                      |
|                    |                     | Controller      | SED1520 or Equivalent                   |

◆INTERFACE PIN CONNECTIONS

| Pin No. | Symbol | Function               | Pin No. | Symbol  | Function                                   |
|---------|--------|------------------------|---------|---------|--------------------------------------------|
| 1       | Vss    | Ground for logic       | 7       | R/W     | Read/Write selection (H: R, L: W)          |
| 2       | Vdd    | Power supply for logic | 8       | Ao      | Register selection (H:Data, L:Instruction) |
| 3       | Vo     | Power supply for LCD   | 9~16    | DB0~DB7 | Data bus lines                             |
| 4       | /RST   | Reset signal           | 17      | A       | BKL +                                      |
| 5       | E1     | Enable signal for IC1  | 18      | K       | BKL -                                      |
| 6       | E2     | Enable signal for IC2  |         |         |                                            |

◆ELECTRICAL CHARACTERISTICS

| Item                      | Symbol | Test Condition   | Min. | Typ. | Max. | Unit |
|---------------------------|--------|------------------|------|------|------|------|
| Operating Voltage         | Vdd    | Ta=25℃           | ---  | 5.0  | ---  | V    |
| Operating Voltage for LCD | Vlcd   | Ta=25℃           | ---  | 6.5  | ---  | V    |
| Supply Current            | Idd    | Ta=25℃, Vdd=5.0V | ---  | 2.5  | 3.0  | mA   |
| Supply Voltage for LED    | Vf     | Ta=25℃, R=6.8 Ω  | ---  | 4.2  | ---  | V    |
| Supply Current for LED    | If     | Ta=25℃, Vf=4.2V  | ---  | 120  | ---  | mA   |