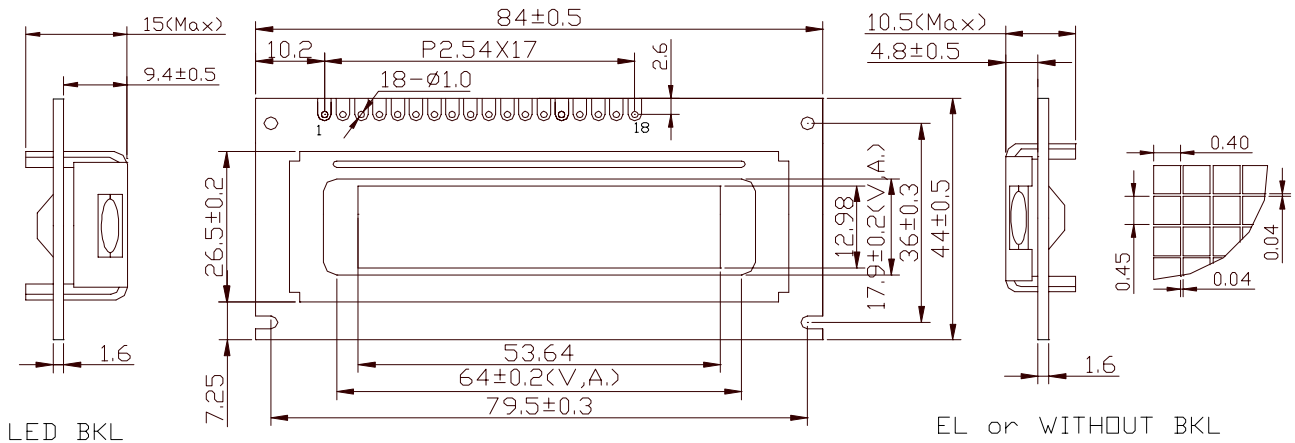
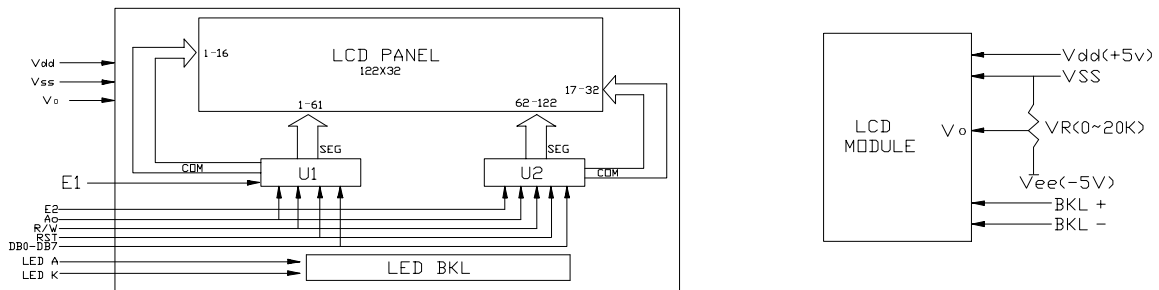


## ● OUTLINE DIMENSION



## ● BLOCK DIAGRAM & POWER SUPPLY



## ● MECHANICAL SPEC.&FEATURES

| Item               | Dimension(mm)       |
|--------------------|---------------------|
| Module Size(WxHxT) | 84.0x44.0x10.5/15.0 |
| Viewing Area(WxH)  | 64.0x17.9           |
| Dot Size(WxH)      | 0.40x0.45           |
| Dot Pitch(WxH)     | 0.44x0.49           |
| DotsxDots          | 122x32              |
|                    |                     |
|                    |                     |

| Features        |                                       |
|-----------------|---------------------------------------|
| LC Fluid        | STN(Yellow-green,Gray,Blue),FSTN      |
| Polarizer       | Reflective,Transflective,Transmissive |
| View Angle      | 6:00 o'clock or 12:00 o'clock         |
| Display Type    | Positive or Negative                  |
| Backlight       | LED(Optional)                         |
| Operating Temp. | 0°C ~50°C or -20°C ~70°C              |
| Controller      | SED1520 or Equivalent                 |

## ● INTERFACE PIN CONNECTIONS

| Pin No. | Symbol | Function               |
|---------|--------|------------------------|
| 1       | Vss    | Ground for logic       |
| 2       | Vdd    | Power supply for logic |
| 3       | Vo     | Power supply for LCD   |
| 4       | /RST   | Reset signal           |
| 5       | E1     | Enable signal for IC1  |
| 6       | E2     | Enable signal for IC2  |

| Pin No. | Symbol  | Function                                 |
|---------|---------|--|
| 7       | R/W     | Read/Write selection(H:R,L:W)            |
| 8       | AO      | Register selection(H:Data,L:Instruction) |
| 9~16    | DB0~DB7 | Data bus lines                           |
| 17      | A       | BKL+                                     |
| 18      | K       | BKL-                                     |

## ● ELECTRICAL CHARACTERISTICS

| Item                      | Symbol | Test Condition    | Min | Typ. | Max. | Unit |
|---------------------------|--------|-------------------|-----|------|------|------|
| Operating Voltage         | Vdd    | Ta=25°C           | ... | 5.0  | ...  | V    |
| Operating Voltage for LCD | Vlcd   | Ta=25°C           | ... | 4.5  | ...  | V    |
| Supply Current            | Idd    | Ta=25°C, Vdd=5.0V | ... | 2.5  | 3.0  | mA   |
| Supply Voltage for LED    | Vf     | Ta=25°C, R=6.8Ω   | ... | 4.2  | ...  | V    |
| Supply Current for LED    | If     | Ta=25°C, Vf=4.2V  | ... | 120  | ...  | mA   |