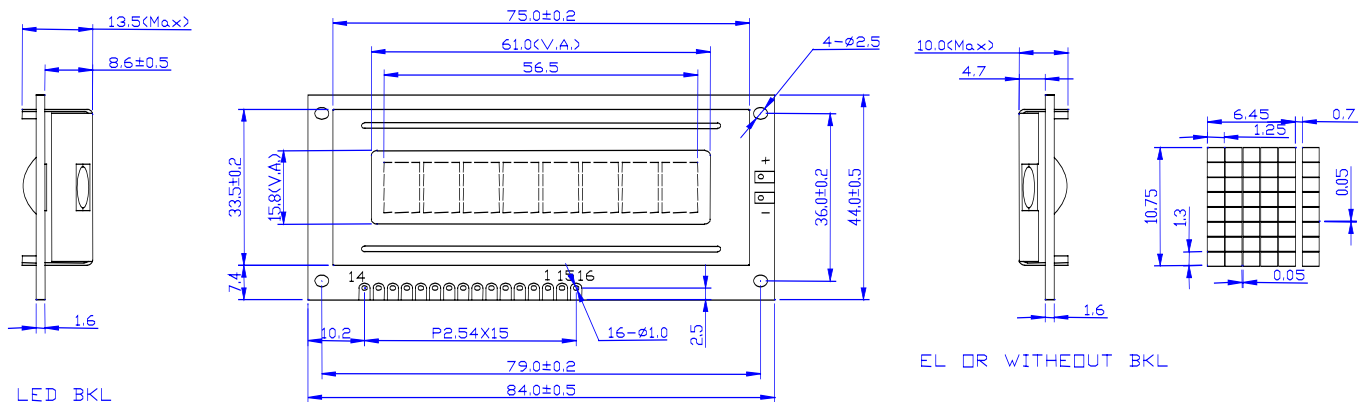
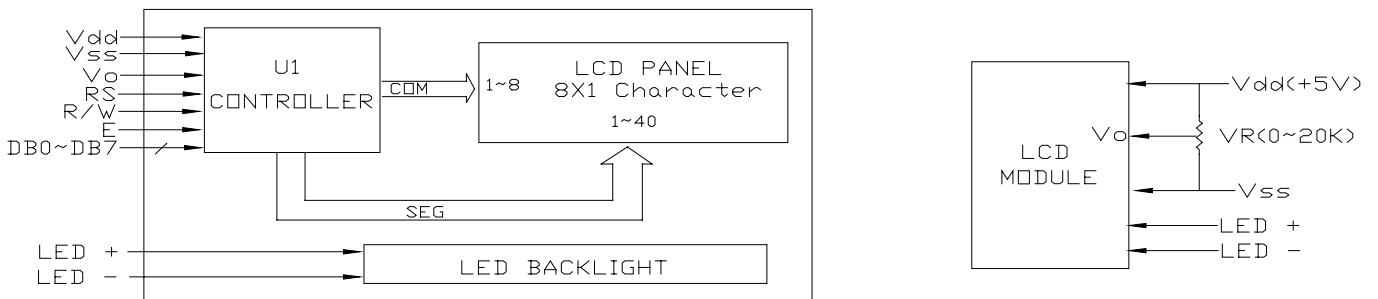


◆ **OUTLINE DIMENSION**



◆ **BLOCK DIAGRAM & POWER SUPPLY**



◆ **MECHANICAL SPEC. & FEATURES**

| Item | Dimension(mm) | Features | |
|----------------------|---------------------|-----------------|---------------------------------------|
| Module Size(W×H×T) | 84.0×44.0×10.0/13.5 | LC Fluid | TN,STN (Yellow-green,Gray, Blue),FSTN |
| Viewing Area(W×H) | 61.0×15.8 | Polarizer | Reflective,Transflective,Transmissive |
| Dot Size(W×H) | 1.25×1.30 | View Angle | 6:00 o'clock or 12:00 o'clock |
| Dot Pitch(W×H) | 1.30×1.35 | Display Type | Positive or Negative |
| Character Size(W×H) | 6.54×10.75 | Backlight | LED(Optional) |
| Character Pitch(W×H) | 7.15× -- | Operating Temp. | 0°C~50°C or -20°C~70°C |
| | | Controller | S6A0069 or Equivalent |

◆ **INTERFACE PIN CONNECTIONS**

| Pin No. | Symbol | Function | Pin No. | Symbol | Function |
|---------|--------|--|---------|---------|----------------|
| 1 | Vss | Ground for logic | 6 | E | Enable signal |
| 2 | Vdd | Power supply for logic | 7~14 | DB0~DB7 | Data bus lines |
| 3 | Vo | Power supply for LCD | 15 | A | BKL + |
| 4 | RS | Register selection(H:Data,L:Instruction) | 16 | K | BKL - |
| 5 | R/W | Read/Write selection(H: R, L: W) | | | |

◆ **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 | --- | 2.0 | 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 | --- | --- | --- | mA |