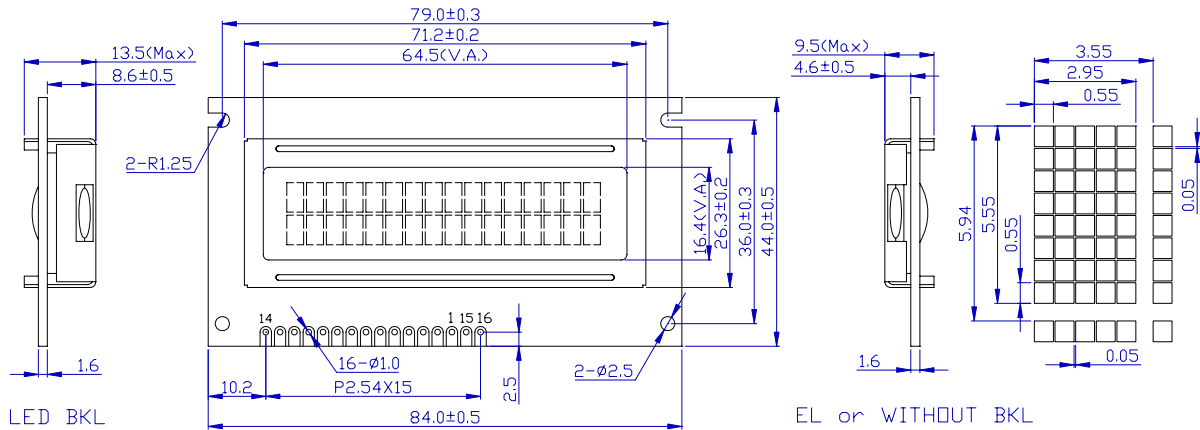
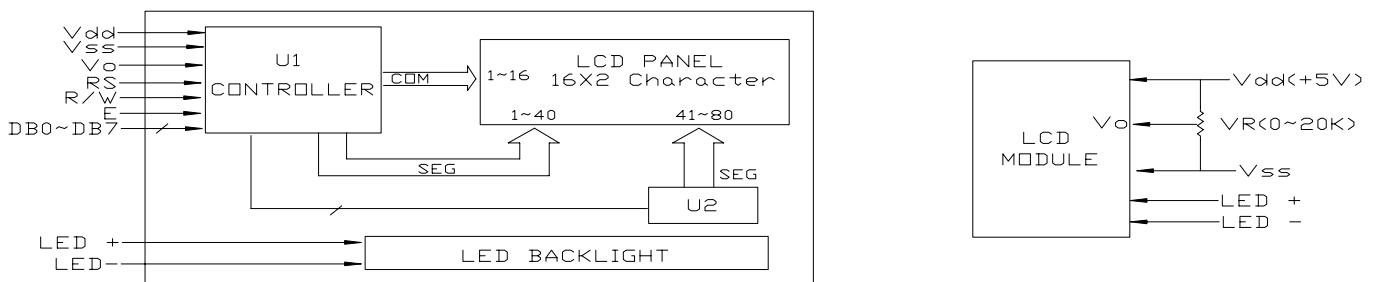


◆ **OUTLINE DIMENSION**



◆ **BLOCK DIAGRAM & POWER SUPPLY**



◆ **MECHANICAL SPEC. & FEATURES**

| Item | Dimension(mm) | Features | |
|----------------------|--------------------|-----------------|--|
| Module Size(W×H×T) | 84.0×44.0×9.5/13.5 | LC Fluid | TN, STN (Yellow-green, Gray, Blue), FSTN |
| Viewing Area(W×H) | 64.5×16.4 | Polarizer | Reflective, Transflective, Transmissive |
| Dot Size(W×H) | 0.55×0.55 | View Angle | 6:00 o'clock or 12:00 o'clock |
| Dot Pitch(W×H) | 0.60×0.60 | Display Type | Positive or Negative |
| Character Size(W×H) | 2.95×5.55 | Backlight | LED (Optional) |
| Character Pitch(W×H) | 3.55×5.94 | 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 | Vled | 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 | --- | 120 | --- | mA |