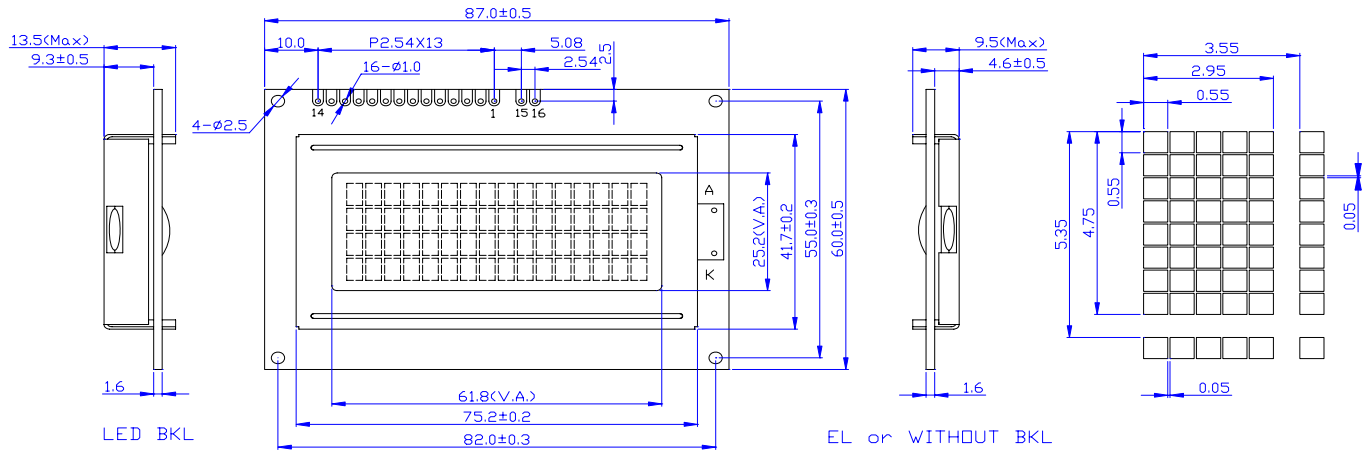
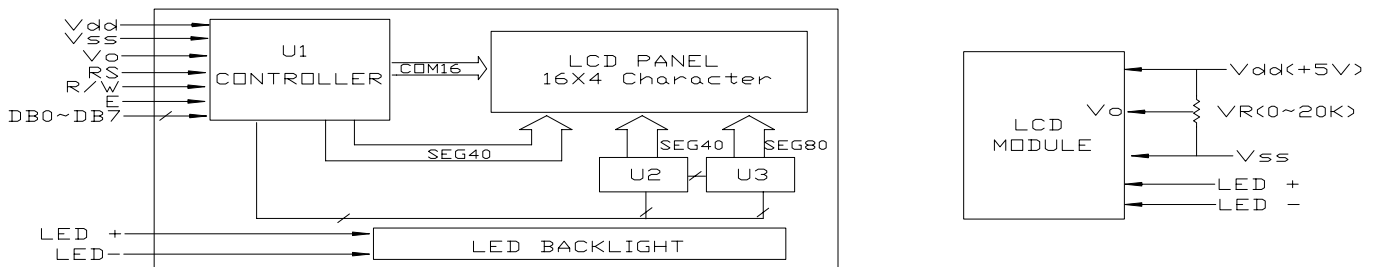


◆ OUTLINE DIMENSION



◆ BLOCK DIAGRAM & POWER SUPPLY



◆ MECHANICAL SPEC. & FEATURES

| Item | Dimension(mm) | Features | |
|----------------------|--------------------|-----------------|---|
| Module Size(W×H×T) | 87.0×60.0×9.5/13.5 | LC Fluid | STN (Yellow-green, Gray, Blue), FSTN |
| Viewing Area(W×H) | 61.8×25.2 | 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) | 2.95×4.75 | Backlight | LED (Optional) |
| Character Pitch(W×H) | 3.55×5.35 | Operating Temp. | 0℃~50℃ or -20℃~70℃ |
| | | 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℃ | --- | 5.0 | --- | V |
| Operating Voltage for LCD | Vled | Ta=25℃ | --- | 4.5 | --- | V |
| Supply Current | Idd | Ta=25℃, Vdd=5.0V | --- | 2.0 | 3.0 | mA |
| Supply Voltage for LED | Vf | Ta=25℃, R=6.8Ω | --- | 4.2 | --- | V |
| Supply Current for LED | If | Ta=25℃, Vf=4.2V | --- | 220 | --- | mA |