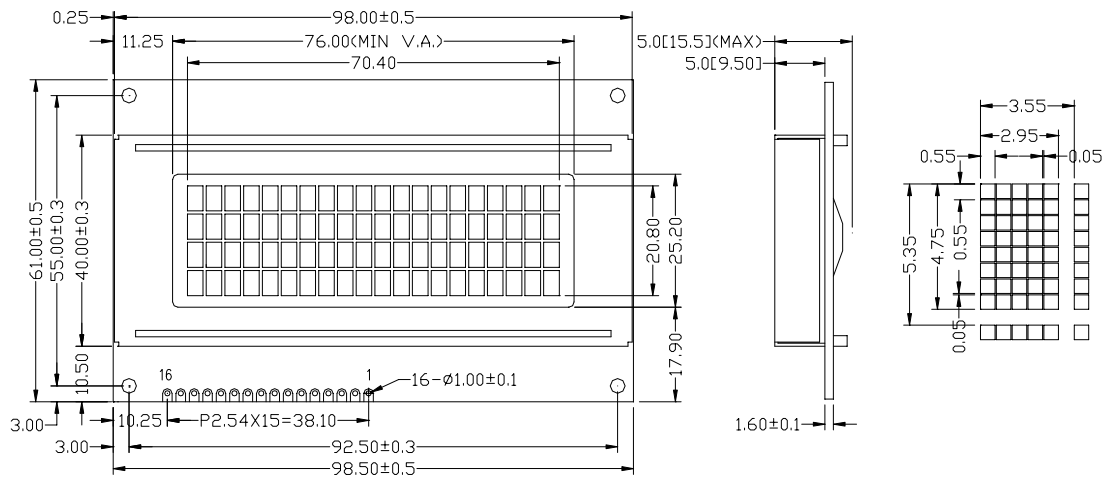


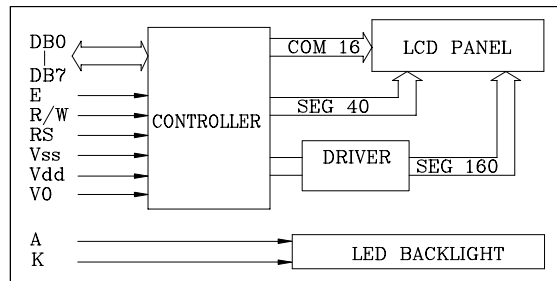


•EXTERNAL DIMENSIONS:

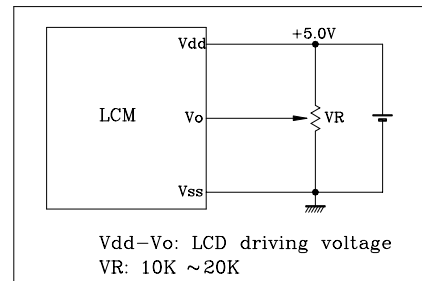


[] For LED Backlight

•BLOCK DIAGRAM:



•POWER SUPPLY:



MECHANICAL SPECIFICATIONS

| ITEM | SPECIFICATION | UNIT |
|-----------------------|---------------------------|------|
| Module Size (WxHxT) | 98.5x61.0x15.5 | mm |
| Viewing Area (WxH) | 76.0x25.2 | mm |
| Character Font (WxH) | 5x7+cursor | dots |
| Character Size (WxH) | 4.75x2.95 | mm |
| Character Pitch (WxH) | 5.35x3.55 | mm |
| Dot Size (WxH) | 0.55x0.55 | mm |
| Character Type | Eng/Jap, Eng/Eur, Eng/Rus | |
| LCD MODE | STN(Y/G,Gray,Blue),FSTN | |

PIN ASSIGNMENT

| PIN | SYMBOL | FUNCTION |
|------|---------|----------------------------------|
| 1 | Vss | Power Supply (0V) |
| 2 | Vdd | Power Supply (+5V) |
| 3 | Vo | Contrast Adjust |
| 4 | RS | Data/Instruction Register Select |
| 5 | R/W | Read/Write |
| 6 | E | Enable Signal |
| 7-14 | DBO~DB7 | Data bus Line |
| 15 | A | Power Supply for LED BL (+) |
| 16 | K | Power Supply for LED BL (-) |

ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | MIN. | MAX. | UNIT |
|-----------------------|---------|------|---------|------|
| Power Supply (logic) | Vdd-Vss | -0.3 | 7.0 | V |
| Power Supply (LCD) | Vdd-Vo | 3.0 | 13.0 | V |
| Input Voltage | Vi | -0.3 | Vdd+0.3 | V |
| Operating Temperature | Topr | 0 | 50 | °C |
| Storage Temperature | Tstg | -20 | 70 | °C |

ELECTRICAL CHARACTERISTICS (Ta=25°C)

| ITEM | SYMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT |
|------------------------|--------|-----------|--------------|------|------|------|
| Power Supply (logic) | Vdd | - | 4.5 | 5.0 | 5.5 | V |
| Supply Current (logic) | Idd | VDD=5.0V | 0 | - | 4.0 | mA |
| Driving Voltage (LCD) | Vdd-Vo | | 4.4 | 4.7 | 5.0 | V |
| Driving Current (LCD) | Ilcd | | 0 | - | 0.8 | mA |
| Input Voltage "H" | Vih | | 2.2 | - | Vdd | V |
| Input Voltage "L" | Vil | | -0.3 | - | 0.6 | V |
| Output Voltage "H" | Voh | | Ioh=-0.205mA | 2.4 | - | - |
| Output Voltage "L" | Vol | Iol=1.2mA | - | - | 0.4 | V |

LED BACKLIGHT SPECIFICATIONS

| PARAMETER | TYP. | ITEM | TYP. |
|-----------------|-------|---------------------|--------|
| Forward Voltage | 4.2V | Power Dissipation | 1008mW |
| Forward Current | 240mA | Emission Wavelength | 570nm |