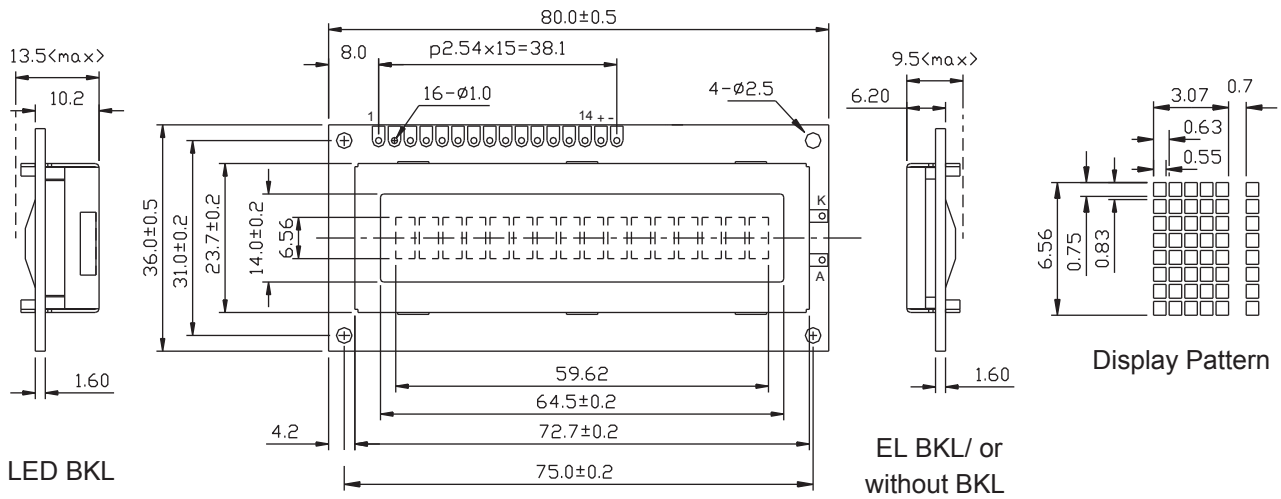


Outline Dimension



Feature

1. 5X8 dots with cursor
2. Built-in controller (KS0066U or Equivalent)
3. +5V power supply(Also available for +3.0V)
4. 1/16 duty cycle
5. BKL to be driven by pin1, pin2, or pin15, pin16 or A, K
6. N.V.optional

Interface pin connections

| PIN NO | Symbol | Function |
|--------|--------|----------------------------|
| 1 | VSS □ | GND |
| 2 | VDD □ | +5V |
| 3 | V0 | Contrast adjustment |
| 4 | RS | H/L Register select signal |
| 5 | R/W □ | H/L Read/Write signal |
| 6 | E | H/L Enable signal |
| 7 | DB0 □ | H/L Data bus line |
| 8 | DB1 □ | H/L Data bus line |
| 9 | DB2 □ | H/L Data bus line |
| 10 | DB3 □ | H/L Data bus line |
| 11 | DB4 □ | H/L Data bus line |
| 12 | DB5 □ | H/L Data bus line |
| 13 | DB6 □ | H/L Data bus line |
| 14 | DB7 □ | H/L Data bus line |
| 15 | A | +4.2V for BKL |
| 16 | K | Power supply for BKL(0V) |

Mechanical Data

| Item | Standard | Unit |
|------------------|-----------|------|
| Module dimension | 80.0x36.0 | mm |
| Viewing area | 64.5x14.0 | mm |
| Dot size | 0.55x0.75 | mm |
| Character size | 3.07x6.56 | mm |

Absolute Maximum Rating

| Item | Symbol | Standard | | | Unit |
|---------------|---------|----------|-------|-----|------|
| | | Min | Typ | Max | |
| Power supply | VDD-VSS | -0.3 | ----- | 5.5 | V |
| Input voltage | VI | -0.3 | ----- | VDD | |

Electronical characteristics

| Item | Symbol | Condition | Standard | | | Unit |
|--|-----------------|-----------------------------------|----------|-------|-------|------|
| | | | Min | Typ | Max | |
| Input voltage | VDD | +5V | 4.7 | 5.0 | 5.5 | V |
| | | +3.3V | 2.7 | 3.0 | 5.3 | V |
| Supply current | IDD | VDD=5V | ----- | 1.3 | 4 | mA |
| Recommended LCD driving voltage for normal temp version module | VDD-V0 | -20°C | ----- | ----- | ----- | V |
| | | 0 °C | 4.7 | 5.0 | 5.5 | |
| | | 25°C | 4.3 | 4.5 | 4.7 | |
| | | 50°C | 4.1 | 4.3 | 4.5 | |
| LED forward voltage | VF | 25°C | ----- | 4.2 | 4.6 | V |
| LED forward current | IF | 25°C | ----- | 110 | ----- | mA |
| EL power supply current | I _{EL} | V _{EL} =110V AC 400Hz | ----- | ----- | ----- | mA |

Display character address code:

Display position
 DDRAM address 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
 00 01 02 --- --- --- 40 41 42 --- --- --- 47H