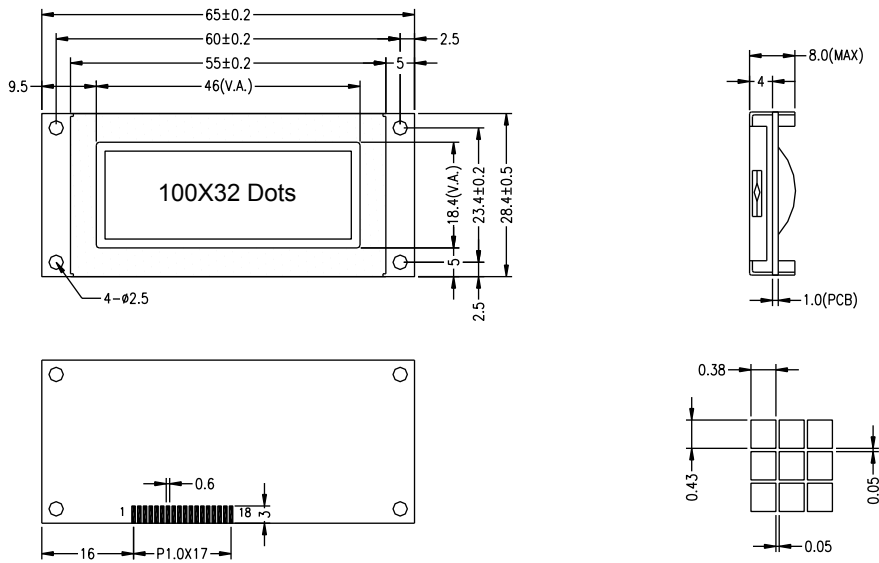
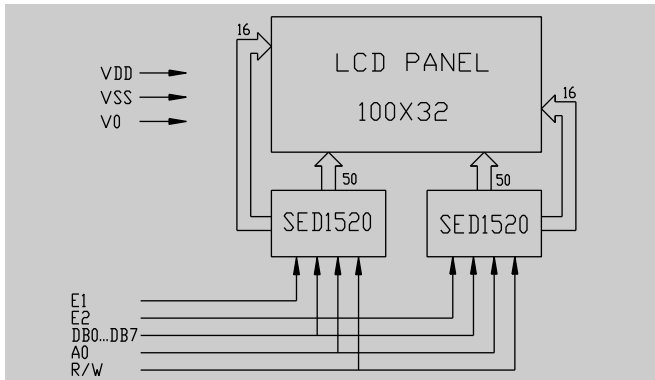


**Outline Dimension**



**Block diagram**



**Feature**

1. 100X32 dots graphic LCD module
2. Built-in controller (SED1520D0A)
3. 5.0V power supply
4. STN; 1/32 duty ; with LED BKL

**Mechanical Data**

| Item             | Standard  | Unit |
|------------------|-----------|------|
| Module dimension | 65.0x28.4 | mm   |
| Viewing area     | 46.0x18.4 | mm   |
| Dot size         | 0.38x0.43 | mm   |
| Dot pitch        | 0.43x0.48 | 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    |
| Supply current   | I <sub>DD</sub> | VDD=5V                            | -----    | 1.2   | ----- | mA   |
| Recommended LCD driving voltage for normal temp version module | VDD-V0          | -20°C                             | -----    | ----- | ----- | V    |
|  |                 | 0 °C                              | ----     | 4.8   | ----  |      |
|  |                 | 25°C                              | ----     | 4.5   | ----  |      |
|  |                 | 50°C                              | ----     | 4.3   | ----  |      |
| 70°C   | -----           | -----                             | -----    | ----- |       |      |
| LED forward voltage  | VF              | 25°C                              | -----    | 3.6   | ----- | V    |
| LED forward current  | IF              | 25°C                              | -----    | 20    | ----- | mA   |
| EL power supply current  | I <sub>EL</sub> | V <sub>EL</sub> =110V<br>AC 400Hz | -----    | ----- | ----- | mA   |

**Interface pin connections**

| PIN NO  | Symbol     | Function                      |
|---------|------------|-------------------------------|
| 1       | VSS □      | GND                           |
| 2       | VDD □      | +5V                           |
| 3       | V0 □       | Constrast adjustment          |
| 4       | A0         | H/L H:Data L:Instruction code |
| 5       | RW         | H/L Read/write                |
| 6       | E1         | Chip enable signal            |
| 7       | E2         | Chip enable signal            |
| 8       | NC         |                               |
| 9 to 16 | DB0 to DB7 | H/L Data bus line             |
| 17      | A          | Power supply for BKL(3.6V)    |
| 18      | K          | Power supply for BKL(GND)     |