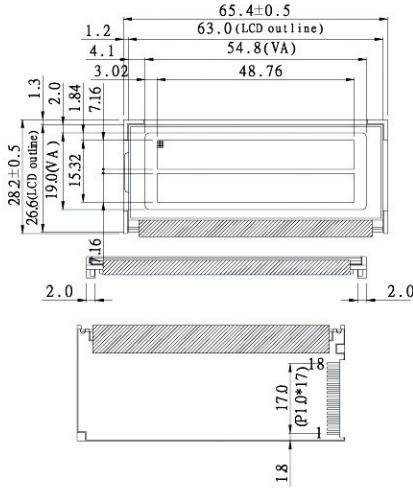
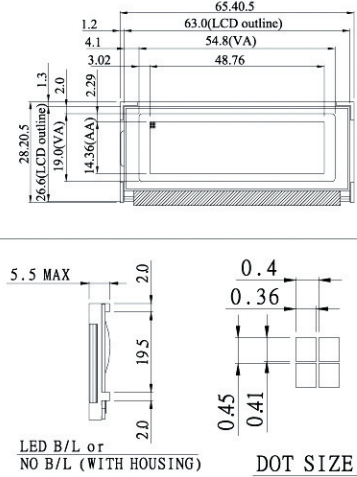


Graphic 122x32 dots **WG12232B/G**

Dimension drawing



WG12232G



LED B/L or
NO B/L (WITH HOUSING)

DOT SIZE

Graphic
type

Feature

1. Available for internal oscilation 2KHz
2. Built-in controller Epson-(SED1520 or Equivalent)
3. 1/32 duty cycle
4. 2.85 ~ 5V power supply
5. The feature of WG12232G is the same of WG12232B

| Pin NO. | Symbol | Function |
|---------|--------|--|
| 1 | Vdd | Power Supply(+3V,5V) |
| 2 | Vss | GND |
| 3 | Vo | Contrast Adjustment |
| 4 | RES | L: reset the LCM |
| 5 | E1 | Enable chip1 |
| 6 | E2 | Enable chip2 |
| 7 | R/W | H: read data L: write data |
| 8 | A0 | H: D ₀ ~ D ₇ are display data L: D ₀ ~ D ₇ are display control data |
| 9 | DB0 | Data bus line |
| 10 | DB1 | Data bus line |
| 11 | DB2 | Data bus line |
| 12 | DB3 | Data bus line |
| 13 | DB4 | Data bus line |
| 14 | DB5 | Data bus line |
| 15 | DB6 | Data bus line |
| 16 | DB7 | Data bus line |
| 17 | A | +2.1V for LED |
| 18 | K | Power supply for B/L (0V) |

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 65.4x29.1 | mm |
| Viewing Area | 54.8x19.0 | mm |
| Dot Size | 0.36x0.41 | mm |
| Dot Pitch | 0.4x0.45 | mm |

Absolute Maximum Rating

| Item | Symbol | Standard Value | | | Unit |
|---------------|---------|----------------|------|------|------|
| | | min. | typ. | max. | |
| Power Supply | VDD-VSS | 4.75 | 5 | 5.25 | V |
| Input Voltage | VI | 0 | | VDD | V |

Note : VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

| Item | Symbol | Condition | Standard Value | | | Unit |
|--|--------|------------------|----------------|------|------|------|
| | | | min. | typ. | max. | |
| Input Voltage | VDD | VDD=5V±1V | 4.5 | 5.0 | 5.5 | V |
| Supply Current | IDD | VDD=5V | --- | 1.0 | 1.4 | mA |
| Recommended LC Driving Voltage for Normal Temp. Version module | VDD-V0 | -20°C | 4.7 | 4.9 | 5.1 | V |
| | | 0°C | 4.5 | 4.7 | 4.9 | |
| | | 25°C | 4.3 | 4.5 | 4.7 | |
| | | 50°C | 4.2 | 4.3 | 4.5 | |
| LED Forward Voltage | VF | 25°C | 1.7 | 2.1 | 2.5 | V |
| LED Forward Current | IF | 25°C | --- | 100 | 200 | mA |
| EL Power Supply Current | IEL | Val=110VAC,400Hz | --- | --- | 5.0 | mA |