



BG12232D1



Feature

1. COB with metal frame
2. built-in oscillation
3. Built-in controller SBN1661G-M18 or equivalent
4. 1/32 duty cycle
5. + 5V single power supply
6. Option: +3V single power supply
7. Option: LED, EL B/L
7. Option: Negative Voltage

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 80.0 x 36.0 | mm |
| Viewing Area | 60.0 x 18.0 | mm |
| Dot Size | 0.4 x 0.45 | mm |
| Dot Pitch | 0.44 x 0.49 | mm |



Pin Assignment

| Pin | Symbol | Function |
|-------|--------|--|
| 1 | Vss | GND |
| 2 | Vdd | + 5V(+3V option) |
| 3 | Vo | Contrast adjustment |
| 4 | Ao | H --> Data L --> Instruction |
| 5 | E1 | Data latch for chip 1 |
| 6 | E2 | Data latch for chip2 |
| 7 | NC | No connection |
| 8 | NC | No connection |
| 9 | R/W | H:read , L:write |
| 10~17 | DB0~7 | Data bus line |
| 18 | /RES | Reset signal |
| 19 | A/Vee | Power supply for B/L (+)/ Negative voltage output |
| 20 | K | Power supply for B/L (GND) |

Electronic Characteristics

| Item | Symbol | Condition | Typical Value | Unit |
|-----------------------------------|--------|------------------|---------------|------|
| Input Voltage | Vdd | Vdd = +5V | 5.0 | V |
| Supply Current | Idd | Vdd = +5V | 1.0 | mA |
| LCD Driving Voltage | Vdd-Vo | 25°C | 4.8 | V |
| LED Forward Voltage(yellow-green) | Vf | 25°C | 4.2 | V |
| LED Forward Current | If | 25°C | 100 | mA |
| EL Power Voltage | Vel | Vel=110Vac/400Hz | | V |

Dimension

