



BG12232D



Feature

1. COB with metal frame
2. No built-in oscillation, requiring external clock
3. Built-in controller SED1520Daa
4. 1/32 duty cycle
5. + 5V single power supply
6. Option: +3V single power supply
7. Option: LED, EL B/L

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 | /CS1 | L --> Chip1 enable |
| 6 | /CS2 | L --> Chip 2 enable |
| 7 | CL | External clock 2KHZ |
| 8 | RD/E | RD for 80 serial; /E for 68 serial |
| 9 | WR,R/W | WR for 80 serial; R/W for 68 serial |
| 10~17 | DB0~7 | Data bus line |
| 18 | RES | L: 80 series, H: 68 series |
| 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 | 4.5 | V |
| LED Forward Voltage | Vf | 25°C | 4.2 | V |
| LED Forward Current | If | 25°C | 120 | mA |
| EL Power Voltage | Vel | Vel=110Vac/400Hz | | V |

Dimension

