



Feature

1. COB with metal frame
2. Built-in controller ST7920
(128x64 dots matrix mode or 16x16 dots Big5/GB Chinese mode, or 8x16 dots ASCII mode)
3. +5V single power supply
4. 1/32 duty cycle
5. Option: +3.3V single power supply
6. Option: LED edge B/L



Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 84.0 x 44.0 | mm |
| View Area | 66.0 x 16.0 | mm |
| Dot Size | 0.37 x 0.37 | mm |
| Dot Pitch | 0.42 x 0.42 | mm |

Pin Assignment

| Pin | Symbol | Function |
|------|--------|------------------------------|
| 1 | Vss | GND |
| 2 | Vdd | +5V (+3.3V option) |
| 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 |
| 7~14 | DB0~7 | Data bit 0 |
| 15 | A | Power supply for B/L (+) |
| 16 | K | Power supply for B/L (GND) |

Electronic Characteristics

| Item | Symbol | Condition | Value | Unit |
|---------------------|--------|-----------|-------|------|
| Input Voltage | Vdd | | 5.0 | V |
| Supply Current | Idd | Vdd=5V | 5 | mA |
| LCD Driving Voltage | Vdd-V0 | 25°C | 5.0 | V |
| LED forward Voltage | VF | 25°C | 3.3 | V |
| LED forward Current | IF | 25°C | 30 | mA |

Dimension

