

16x2 Character

- 5x7 dots with cursor
- 1/16 duty
- Controller (KS0066 or Equivalent) built in
- +5V single supply
- B/L driven by pin1 and 2 or A,K

Pin Assignment

| No. | Symbol | Function |
|------|-----------------|-------------------------|
| 1 | V _{ss} | Gnd, 0V |
| 2 | V _{dd} | 3V or +5V |
| 3 | V ₀ | LCD Drive |
| 4 | RS | Function Select |
| 5 | R/W | Read/Write |
| 6 | E | Enable Signal |
| 7-14 | DB0-DB7 | Data Bus Line |
| 15 | A | 4.2V for LED |
| 16 | K | Power Supply for LED 0V |

Mechanical Data

| Item | Standard Value | Unit |
|----------------|----------------|------|
| Module Size | 85.0 x 36.0 | mm |
| Viewing Area | 66.0 x 16.0 | mm |
| Dot Size | 0.56 x 0.66 | mm |
| Character Size | 2.96 x 5.56 | mm |

Absolute Maximum Rating

| Item | Symbol | Standard Value | | | Unit |
|----------|----------------------------------|----------------|------|-----------------|------|
| | | min. | typ. | max. | |
| V-Module | V _{dd} -V _{ss} | -0.3 | --- | 7.0 | V |
| V-Input | V _I | -0.3 | --- | V _{dd} | V |

V_{ss}=0V, V_{dd}=5.0V

Electronical Characteristics

| Item | Symbol | Condit. | Standard Value | | | Unit |
|---|---------------------------------|--|----------------|------------|------------|------|
| | | | min. | typ. | max. | |
| Input Voltage | V _{dd} | V _{dd} =+5V V _{dd} =+3V | 4.7 2.7 | 5.0 3.0 | 5.3 3.3 | V |
| Supply Curent | I _{dd} | V _{dd} =+5V | --- | 1.2 | 1.5 | mA |
| Recommended LC Driving Voltage for Standard Temp. Modules | V _{dd} -V ₀ | -20 °C | --- | --- | 5.2 | V |
| | | 0 °C | --- | --- | 4.2 | |
| | | 25 °C | --- | 3.8 | --- | |
| | | 50 °C | 3.5 | --- | --- | |
| | | 70 °C | 3.2 | --- | --- | |
| LED Forward Voltage | V _f | 25 °C | --- | 4.2 | 4.6 | V |
| LED Forward Current | I _f | 25 °C | --- | 130 | 195 | mA |
| EL Power Supply Current | I _{EL} | V _{el} =110V AC;400Hz | --- | --- | 5.0 | mA |

