



Feature

- 1.8x2 characters includes cursor
- Built-in controller (KS0066 or Equivalent)
- +5V power supply(Also available for +3V)
- 1/16 duty cycle
- LED can be driven by pin1,pin2,or A and K

Terminal Function

| Pin No. | Symbol | Function |
|---------|-----------------|--------------------------|
| 1 | V _{SS} | GND |
| 2 | V | Supply voltage for logic |
| 3 | V ₀ | Contrast Adjustment |
| 4 | RS | Register select signal |
| 5 | R/W | Read / write signal |
| 6 | E | Enable signal |
| 7 | DB0 | Data bus line |
| 8 | DB1 | Data bus line |
| 9 | DB2 | Data bus line |
| 10 | DB3 | Data bus line |
| 11 | DB4 | Data bus line |
| 12 | DB5 | Data bus line |
| 13 | DB6 | Data bus line |
| 14 | DB7 | Data bus line |

Mechanical Data

| Item | Value | Unit |
|--------------|--------------|------|
| Outline | 58.0 x 32.0 | mm |
| Viewing Area | 38.0 x 16.0 | mm |
| Active Area | 27.81 x 11.5 | mm |
| Dot Size | 0.56 x 0.66 | mm |
| Dot Pitch | 0.60 x 0.70 | mm |

Electrical Characteristics

| Item | Symbol | Min | Typ | Max |
|------------------------|----------------------------------|-----------------|-----|-----------------|
| Operating Voltage(V) | V _{DD} | 4.7 | 5.0 | 5.3 |
| Supply Voltage For LCD | V _{DD} - V ₀ | - | 4.4 | - |
| Input High Voltage(V) | V _{IH} | 0.7 | - | V _{DD} |
| Input Low Voltage(V) | V _{IL} | V _{SS} | - | 0.6 |
| Operating Current(mA) | I _{DD} | - | 1.2 | - |

Backlight Characteristics

| Item | Symbol | Min | Typ | Ma | Unit |
|-----------------|--------------------------|------|-----|-----|------|
| Forward Voltage | V _f (edge) | 3.4 | 3.5 | 3.6 | V |
| Forward Current | I _f (edge) | 14.6 | 16 | 25 | mA |
| Forward Voltage | V _f (array) | - | 4.2 | 4.4 | V |
| Forward Current | I _f (array) | - | 60 | 120 | mA |

Absolute Maximum

| Item | Symbo | Min | Max |
|---------------------------|-----------------|------|-----|
| Operating Voltage(V) | V _{dd} | -0.3 | 7 |
| Operating Temperature(°C) | Top | -20 | +70 |
| Storage Temperature (°C) | T _{st} | -30 | +80 |