## Mechanical Data

| Item | Standard Value | Unit |
|---|---|---|
| Module Dimension | 85.0x25.2 | mm |
| Viewing Area | 66.0x16.0 | mm |
| Mounting hole | 80.5x22.0 | mm |
| Character Size | 2.95x5.55 | mm |

## Absolute Maximum Rating

| Item | Symbol | Standard Value | | | Unit |
|---|---|---|---|---|---|
| | | min. | typ. | max. | |
| Power Supply | VDD-VSS | -0.3 | --- | 7.0 | V |
| Input Voltage | VI | -0.3 | --- | VDD | V |

Note : VSS=0 Volt, VDD=5.0 Volt.

## Electronical Characteristics

| Item | Symbol | Condition | Standard Value | | | Unit |
|---|---|---|---|---|---|---|
| | | | min. | typ. | max. | |
| Input Voltage | VDD | VDD=+5V | 4.7 | 5.0 | 5.3 | V |
| Supply Current | IDD | VDD=5V | --- | 1.2 | 1.5 | mA |
| Recommended LC Driving Voltage for Normal Temp. Version module | VDD-V0 | -20°C | --- | --- | 5.3 | V |
| | | 0°C | 4.7 | 4.8 | 4.9 | |
| | | 25°C | 4.6 | 4.7 | 4.8 | |
| | | 50°C | 4.3 | 4.4 | 4.6 | |
| | | 70°C | 4.1 | 4.2 | 4.4 | |
| LED Forward Voltage | VF | 25°C | --- | 4.2 | 4.6 | V |
| LED Forward Current | IF | 25°C Array | --- | 100 | --- | mA |
| | | Edge | --- | 20 | 40 | |
| EL Power Supply Current | IEL | Vel=110VAC;400Hz | --- | --- | 5.0 | mA |

## Display Character Address Code:

Display position

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DD RAM Address | 00 | 01 | | | | | | | | | | | | | | 0F |
| DD RAM Address | 40 | 41 | | | | | | | | | | | | | | 4F |

## Feature

1. 5x8 dots includes cursor
2. Built-in controller (ST 7066 or Equivalent)
3. +5V power supply
4. 1/16 duty cycle
5. Optional:smaller character size (2.95x4.35mm)

| Pin NO. | Symbol | Function |
|---|---|---|
| 1 | DB7 | Data bus line |
| 2 | DB6 | Data bus line |
| 3 | DB5 | Data bus line |
| 4 | DB4 | Data bus line |
| 5 | DB3 | Data bus line |
| 6 | DB2 | Data bus line |
| 7 | DB1 | Data bus line |
| 8 | DB0 | Data bus line |
| 9 | E | H→L Enable signal |
| 10 | R/W | H/L Read/Write signal |
| 11 | RS | H/L Register select signal |
| 12 | Vo | Contrast Adjustment |
| 13 | Vss | GND |
| 14 | Vdd | Power Supply(+5V) |

Character type

## RC1602G1 Character 16x2 dots

### Dimension drawing



| LED-H/L B/L | High |
|---|---|
| H1 | 13.2 |
| H2 | 8.6 |