

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 130.0x65.0 | mm |
| Viewing Area | 102.0x39.0 | mm |
| Dot Size | 0.46x0.46 | mm |
| Dot Pitch | 0.50x0.50 | mm |

Absolute Maximum Rating

| Item | Symbol | Standard Value | | | Unit |
|---------------|---------|----------------|------|------|------|
| | | min. | typ. | max. | |
| Power Supply | VDD-VSS | 4.75 | 5.0 | 5.5 | V |
| Input Voltage | VI | 0 | --- | VDD | V |

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

Electronical Characteristics

| Item | Symbol | Condition | Standard Value | | | Unit |
|--|--------|------------------|----------------|------|------|------|
| | | | min. | typ. | max. | |
| Input Voltage | VDD | --- | 4.5 | 5.0 | 5.5 | V |
| Supply Current | IDD | VDD=5V | 3.1 | 3.6 | 4.5 | mA |
| Recommended LC Driving Voltage for Normal Temp. Version module | VDD-VO | -20°C | --- | --- | 9.6 | V |
| | | 0°C | --- | --- | --- | |
| | | 50°C | --- | 8.4 | --- | |
| | | 25°C | --- | --- | --- | |
| | | 70°C | 7.6 | --- | --- | |
| LED Forward Voltage | VF | 25°C | 3.4 | 4.2 | 4.6 | V |
| LED Forward Current | IF | 25°C | 70 | 540 | 90 | mA |
| EL Power Supply Current | IEF | Vel=110VAC;400Hz | --- | --- | 5.0 | mA |

Feature

1. Built-in controller (NT 7108 or Equivalent)
2. 1/64 duty cycle
3. +5V power supply
4. Optional N/V

| Pin NO. | Symbol | Function |
|---------|--------|---------------------------|
| 1 | VSS | Ground |
| 2 | VDD | Supply voltage for logic |
| 3 | Vo | Operating voltage for LCD |
| 4 | R/S | H: Data L:Instruction |
| 5 | R/W | H: read data L:write data |
| 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 |
| 15 | CS1 | Chip select IC1 |
| 16 | RES | Reset signal |
| 17 | CS2 | Chip select IC2 |
| 18 | CS3 | Chip select IC3 |
| 19 | VEE | Negative Voltage output |
| 20 | A | +5.0V for LED |

Graphic type

RG19264A1 Graphic 192x64 dots

Dimension drawing

