

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 129.0x102.0 | mm |
| Viewing Area | 101.0x82.0 | mm |
| Dot Size | 0.56x0.56 | mm |
| Dot pitch | 0.60x0.60 | mm |
| Mounting hole | 122.0x96.2 | mm |

Absolute Maximum Rating

| Item | Symbol | Standard Value | | | Unit |
|---------------|---------|----------------|------|------|------|
| | | min. | typ. | max. | |
| Power Supply | VDD-VSS | 4.75 | 5.0 | 5.25 | 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 | L level | 0.7V _{DD} | --- | V _{DD} | V |
| | VIO | H level | 0 | --- | 0.3V _{DD} | V |
| Supply Current | IDD | VDD=+5V | --- | 45 | 50 | mA |
| Recommended LC Driving Voltage for Normal Temp. Version module | VDD-V0 | -20°C | 19.9 | 21.0 | 22.1 | V |
| | | 0°C | 19.0 | --- | 21.2 | |
| | | 25°C | 18.6 | 19.1 | 19.6 | |
| | | 50°C | 16.2 | 16.5 | 16.8 | |
| | | 70°C | 11.6 | 9.1 | 12.8 | |
| CCFL Forward Voltage | VF | 25°C | --- | 256 | 560 | Vms |
| CCFL Forward Current | IF | 25°C | --- | --- | 5.0 | mA |
| LED Forward Voltage | VF | 25°C | --- | 4.6 | 4.6 | V |
| LED Forward Current | IF | 25°C | --- | --- | 500 | mA |

Feature

1. Built-in controller RA6963
2. +5V power supply
3. 1/128 duty cycle
4. Optional N/V

| Pin NO. | Symbol | Function |
|---------|--------|-----------------------------|
| 1 | FG | Frame ground |
| 2 | Vss | Power supply(GND) |
| 3 | Vdd | Power supply (+5V) |
| 4 | Vadj | Contrast Adjustment |
| 5 | Vee | Negative Voltage output |
| 6 | WR | Data write |
| 7 | RD | Data read |
| 8 | CE | Chip enable |
| 9 | C/D | Command /data read/write |
| 10 | HALT | Clock operating stop signal |
| 11 | Reset | Reset signal |
| 12 | DB0 | Data bus line |
| 13 | DB1 | Data bus line |
| 14 | DB2 | Data bus line |
| 15 | DB3 | Data bus line |
| 16 | DB4 | Data bus line |
| 17 | DB5 | Data bus line |
| 18 | DB6 | Data bus line |
| 19 | DB7 | Data bus line |
| 20 | NC | No connection |

Graphic type

RG160128A Graphic 160x128 dots

Dimension drawing

