

Mechanical Data

| Item | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 78.0x70.0x14.3 | mm |
| Viewing Area | 62.0x44.0 | mm |
| Mounting hole | 68.0x64.92 | mm |
| Dot pitch | 0.44x0.60 | mm |

Absolute Maximum Rating

| Item | Symbol | Standard Value | | | Unit |
|---------------|---------|----------------|------|------|------|
| | | min. | typ. | max. | |
| Power Supply | VDD-VSS | 4.5 | 5.0 | 5.5 | 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 | --- | 3.5 | --- | mA | |
| Recommended LC Driving | | -20°C | 9.6 | 10.1 | 10.6 | | |
| | | 0°C | 9.4 | 9.9 | 10.4 | | |
| Voltage for Normal Temp. Version module | VDD-V0 | 25°C | 9.4 | 9.6 | 10.4 | V | |
| | | 50°C | 9.4 | 9.2 | 9.7 | | |
| | | 70°C | 9.2 | 9.0 | 9.5 | | |
| | | | | | | | |
| LED Forward Voltage | VF | 25°C | --- | 4.2 | 4.6 | V | |
| LED Forward Current | IF | 25°C Array | High | --- | 480 | 960 | mA |
| | | | Low | --- | 140 | 280 | mA |
| EL Power Supply Current | IEL | Vel=110VAC;400Hz | --- | --- | 5.0 | mA | |

Feature

1. Built-in controller Samsung- (KS0107 · KS0108 or Equivalent)
2. +5V power supply
3. 1/64 duty cycle
4. N.V. Built-in

| Pin NO. | Symbol | Function |
|---------|--------|-----------------------------------|
| 1 | CS1 | Chip select for IC 1 |
| 2 | CS2 | Chip select for IC2 |
| 3 | Vss | GND |
| 4 | Vdd | Power supply (+5V) |
| 5 | Vo | Contrast Adjustment |
| 6 | D/I | Data/instruction |
| 7 | R/W | Data read/write |
| 8 | E | H → L Enable signal |
| 9 | DB0 | Data bus line |
| 10 | DB1 | Data bus line |
| 11 | DB2 | Data bus line |
| 12 | DB3 | Data bus line |
| 13 | DB4 | Data bus line |
| 14 | DB5 | Data bus line |
| 15 | DB6 | Data bus line |
| 16 | DB7 | Data bus line |
| 17 | RST | Reset |
| 18 | Vee | Negative voltage output |
| 19 | A | Power supply for LED+(4.2V) RA=0Ω |
| 20 | K | Power supply for LED (0V) |

Graphic type

RG12864C Graphic 128x64 dots

Dimension drawing

