



Features:

- Resolution: 160S*160C Dots
- Duty ratio: 1/160
- LCD option: FSTN
- Backlight option(H2/H1mm): EL(3.4/7.0)
- Controller IC: S1D13305
- EL Driver IC built-in
- DC-DC converter and temperature compensation circuit built-in

Optional:

- Touch panel version available

| Pin Assignment | | |
|----------------|---------|--|
| Pin No. | Symbol | Function |
| 1 | /RST | Controller reset |
| 2 | /RD | This signal acts as the active-LOW read strobe. |
| 3 | /WR | This signal acts as the active-LOW write strobe. |
| 4 | /CS | Chip enable for the module |
| 5 | A0 | Command/Data select |
| 6-13 | DB0~DB7 | Data bus (DB0=LSB, DB7=MSB) |
| 14 | Vdd | Power supply for logic (+5V) |
| 15 | VSS | Signal ground (GND) |
| 16 | Adj1 | The pin for the contrast setted by customer |
| 17 | Adj2 | The pin for the contrast setted by customer |
| 18 | BLE | H: EL Enable L: EL Disable |
| 19 | VEL | Power supply for EL (+) |
| 20 | VELG | Power supply for EL (-) |

| Absolute Maximum Rating | | | | | | | | |
|----------------------------------|---------|-----------|------|---------|-------|-------|---|---|
| Item | Symbol | Condition | Min. | Max. | Units | | | |
| Supply for logic voltage | Vdd-Vss | 25°C | -0.3 | 7.0 | V | | | |
| LCD driving supply voltage | Vee-Vss | 25°C | -0.3 | 30.0 | V | | | |
| Input Voltage | VIN | 25°C | -0.3 | VDD+0.3 | V | | | |
| Electrical Characteristics | | | | | | | | |
| Item | Symbol | Condition | Min. | Typical | Max. | Units | | |
| Power supply voltage | Vdd-Vss | 25°C | 4.75 | 5.0 | 5.5 | V | | |
| LCD operation voltage | VOP | Top | N | W | N | W | V | |
| | | -20°C | - | - | - | 20.6 | - | V |
| | | 0°C | - | - | - | - | - | V |
| | | 25°C | - | - | - | 19.0 | - | V |
| | | 50°C | - | - | - | - | - | V |
| | | 70°C | - | - | - | 17.0 | - | V |
| LCM current consumption (No B/L) | Idd | Vdd=5V | - | 20 | - | mA | | |
| Backlight current consumption | EL | VEL=5V | - | 40.0 | - | mA | | |

