



PIN CONNECTIONS

| Pin | Symbol | Level | Function |
|-----|---------------------|-------|--|
| 1 | NC | - | No connection |
| 2 | CS0 | L | Chip select,active "L" |
| 3 | RST | L | Reset signal ,active "L" |
| 4 | CD | H/L | H: Display data L: Control data |
| 5 | WR0 | H/L | Read/write operation control |
| 6 | WR1 | | |
| 7 | D0 | H/L | Data bus line |
| 14 | D7 | | |
| 15 | V _{DD} | 3.3V | Power supply for logic |
| 16 | V _{SS} | 0V | GND |
| 17 | V _{B0+} | - | LCD bias voltages . These are the voltage sources to provide SEG driving currents.These voltages are generated internally. |
| 18 | V _{B0-} | | Connect capacitors of CBX value between VBX+ and VBX-. |
| 19 | V _{B1+} | | |
| 20 | V _{B1-} | | |
| 21 | V _{LCDIN} | - | Main LCD power supply |
| 22 | V _{LCDOUT} | | |
| 23 | BM0 | H/L | Interface select: 8-bit 6800/8080 or 4-wire SPI |
| 24 | BM1 | | |

MECHANICAL DATA

| Item | Nominal Dimensions | | Unit |
|-------------------------|--------------------|--|------|
| Module Size (W x H x T) | 77.10X66.45X2.8 | | mm |
| Viewing Area (W x H) | 71.7 X38.8 | | mm |
| Dot Pitch (W x H) | 0.52X0.52 | | mm |
| Dot Size (W x H) | 0.48X0.48 | | mm |

ABSOLUTE MAXIMUM RATINGS

| Item | Symbol | Min. | Max. | Unit |
|------------------------|----------------------------------|------|----------------------|------|
| Supply Voltage (Logic) | V _{DD} -V _{SS} | -0.3 | 4.0 | V |
| Supply Voltage (LCD) | V ₀ | -0.3 | 13.2 | V |
| Input Voltage | V _I | -0.3 | V _{DD} +0.3 | V |
| Operating Temp. | T _{OPR} | -20 | 70 | °C |
| Storage Temp. | T _{STG} | -30 | 80 | °C |

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, Ta=25°C)

| Item | Sym. | Min. | Typ. | Max. | Unit |
|---------------------|-----------------|--------------------|------|--------------------|------|
| Input High Voltage | V _{IH} | 0.8V _{DD} | 3.3 | - | V |
| Input Low Voltage | V _{IL} | - | - | 0.2V _{DD} | V |
| Output High Voltage | V _{OH} | 0.8V _{DD} | - | - | V |
| Output Low Voltage | V _{OL} | - | - | 0.2V _{DD} | V |
| Supply Current | I _{DD} | - | - | - | uA |
| LCD Driving Voltage | V ₀ | - | 10.0 | - | V |

NOTES: 1. Built-in UC1701x controller

2. COG、FSTN