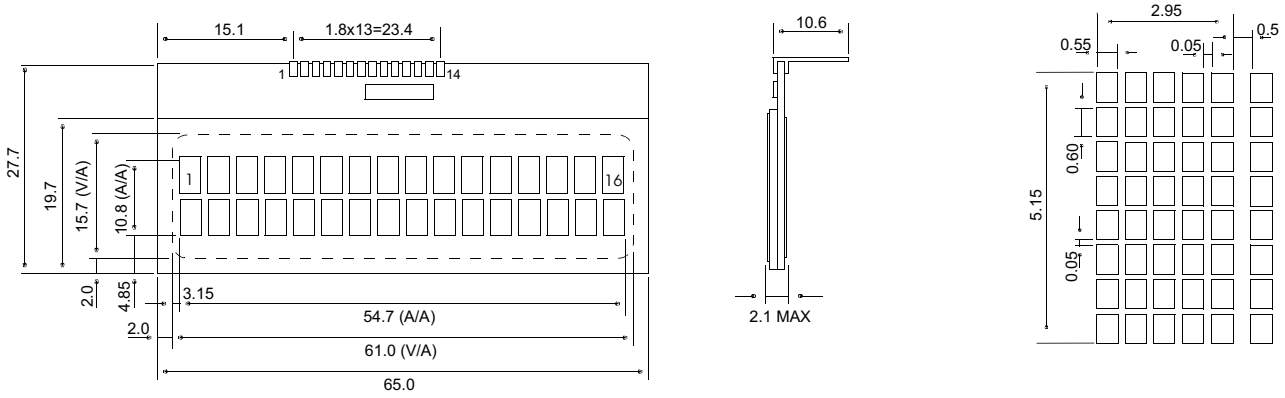
# HDG1602P-2 Chip On Glass technology

**Dimensional Drawing** 16 Character x 2 Line




Dimension tolerance: +/-0.3mm

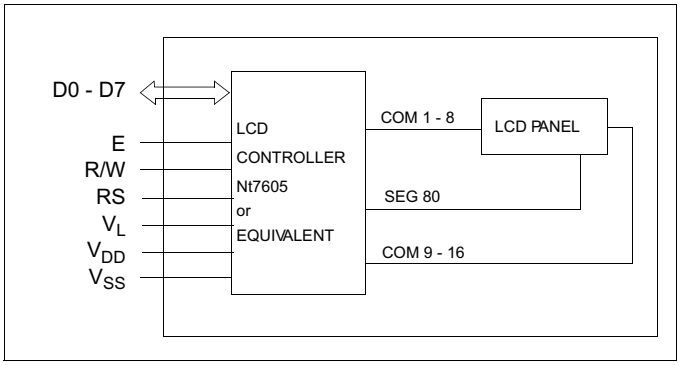
## Features

Character Format .....5x7 Dots with Cursor
Connection .....Pin
Options.....TN or STN reflective or transflective polarizer
Controller .....Nt7605

## Physical Data

Module Size.....65.0W x 27.7H x 2.1T mm
Viewing Area Size.....61.0W x 15.7H mm
Character Size.....2.95W x 5.15H mm
Weight.....10.0 g

## Block Diagram




## Absolute Maximum Ratings

| PARAMETER | SYMBOL | MIN | MAX | UNIT |
|---|---|---|---|---|
| SUPPLY VOLTAGE | $V_{DD}$-$V_{SS}$ | -0.3 | 6.0 | V |
| SUPPLY VOLTAGE FOR LCD | $V_{DD}$-$V_L$ | -0.3 | $V_{DD}$+0.3 | V |
| INPUT VOLTAGE | $V_{IN}$ | $V_{SS}$ | $V_{DD}$ | V |
| OPERATING TEMPERATURE | $T_{OP}$ | 0 | 50 | °C |
| STORAGE TEMPERATURE | $T_{STG}$ | -20 | 70 | °C |

## Electrical Characteristics (VDD=5.0±0.25V 25°C)

| PARAMETER | SYM | CONDITION | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| INPUT HIGH VOLTAGE | $V_{IH}$ | - | 0.7$V_{DD}$ | - | $V_{DD}$ | V |
| INPUT LOW VOLTAGE | $V_{IL}$ | - | $V_{SS}$ | - | 0.2$V_{DD}$ | V |
| OUTPUT HIGH VOLTAGE | $V_{OH}$ | $I_{OH}$=0.2mA | .75$V_{DD}$ | - | $V_{DD}$ | V |
| OUTPUT LOW VOLTAGE | $V_{OL}$ | $I_{OL}$=1.2mA | $V_{SS}$ | - | 0.2$V_{DD}$ | V |
| POWER SUPPLY CURRENT | $I_{DD}$ | $V_{DD}$=5.0V | - | 1.0 | 2.0 | mA |
| POWER SUPPLY FOR LCD | $V_{DD}$-$V_L$ | TA=25°C | - | 4.7 | - | V |
| DRIVE METHOD | 1/16 Duty | | | | | |

## Pin Connections

| PIN NO. | SYMBOL | LEVEL | FUNCTION |
|---|---|---|---|
| 1 | $V_{SS}$ | 0V | Ground |
| 2 | $V_L$ | - | Operating Voltage for LCD Driving |
| 3 | $V_{DD}$ | 5V | Power Supply for Logic |
| 4 | RS | H/L | H: Data input<br>L: Instruction data input |
| 5 | R/W | H/L | H: Data read<br>L: Data write |
| 6 | E | H,H ➔ L | Enable signal |
| 7 | D0 | H/L | Data bus |
| 8 | D1 | H/L | |
| 9 | D2 | H/L | |
| 10 | D3 | H/L | |
| 11 | D4 | H/L | |
| 12 | D5 | H/L | |
| 13 | D6 | H/L | |
| 14 | D7 | H/L | |

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