HDG1602P-2

Chip On Glass technology

Dimensional Drawing

Dimension tolerance: +/-0.3mm
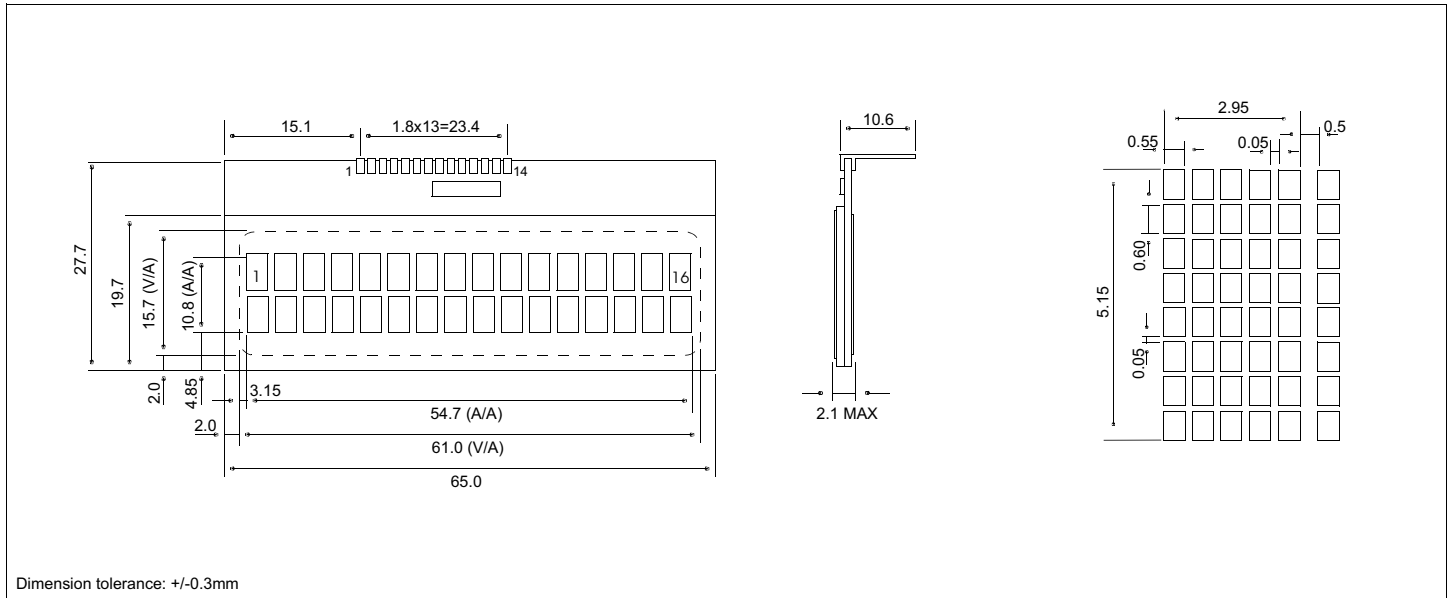
Features

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
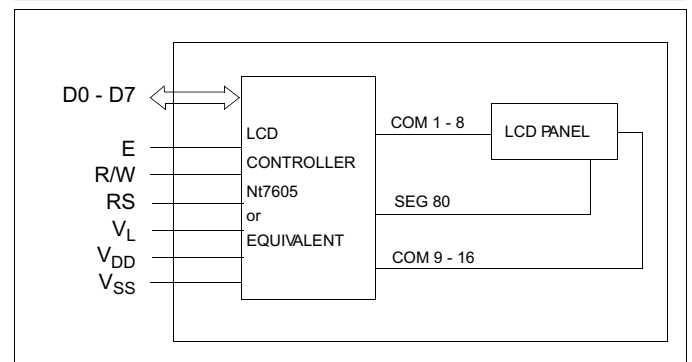
Absolute Maximum Ratings

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	℃
STORAGE TEMPERATURE	T_{STG}	-20	70	℃

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

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V_{IH}	-	$0.7V_{DD}$	-	V_{DD}	V
INPUT LOW VOLTAGE	V_{IL}	-	V_{SS}	-	$0.2V_{DD}$	V
OUTPUT HIGH VOLTAGE	V_{OH}	I_{OH}=0.2mA	$.75V_{DD}$	-	V_{DD}	V
OUTPUT LOW VOLTAGE	V_{OL}	I_{OL}=1.2mA	V_{SS}	-	$0.2V_{DD}$	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℃	-	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 L: Instruction data input
5	R/W	H/L	H: Data read 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	