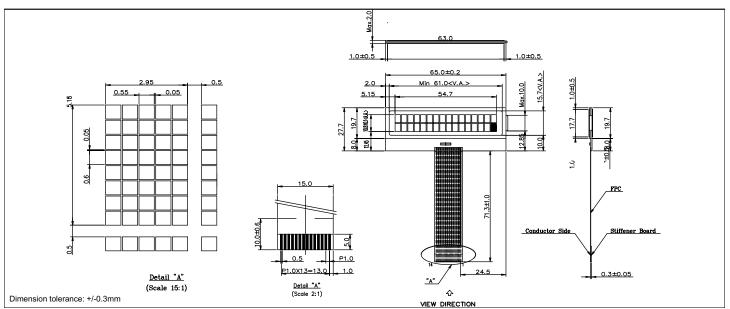
# Chip On Glass technology

Dimensional Drawing 16 Character x 2 Line



#### **Features**

Character Format	5x7 Dots with Cursor
Connection	Flat Flex Cable
Options	STN, Reflective Polarizer
Characters	240 in ROM 8 user designed in RAM

## **Physical Data**

Module Size	65.0W x 27.7H x 2.0T mm
Viewing Area Size	61.0W x 15.7H mm
Character Size	2.95W x 5.15H mm
Weight	6.8 g

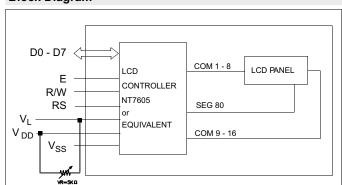
## **Absolute Maximum Ratings**

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V <sub>DD</sub> -V <sub>SS</sub>	-0.3	6.0	٧
SUPPLY VOLTAGE FOR LCD	$V_{DD}$ - $V_{L}$	0	11.0	٧
INPUT VOLTAGE	V <sub>IN</sub>	V <sub>SS</sub>	$V_{DD}$	٧
OPERATING TEMPERATURE	T <sub>OP</sub>	0	50	°C
STORAGE TEMPERATURE	T <sub>STG</sub>	-20	70	°C

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

		•		•		
PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V <sub>IH</sub>	-	0.7V <sub>DD</sub>	-	$V_{DD}$	٧
INPUT LOW VOLTAGE	V <sub>IL</sub>	-	$V_{SS}$	-	0.2V <sub>DD</sub>	٧
OUTPUT HIGH VOLTAGE	V <sub>OH</sub>	I <sub>OH</sub> =0.2mA	0.8V <sub>DD</sub>	-	$V_{DD}$	٧
OUTPUT LOW VOLTAGE	$V_{OL}$	I <sub>OL</sub> =1.2mA	$V_{SS}$	-	0.2V <sub>DD</sub>	٧
POWER SUPPLY CURRENT	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	0.82	1.4	mA
POWER SUPPLY FOR LCD	$V_{DD}$ - $V_{L}$	TA=25°C	4.1	4.5	4.9	٧
DRIVE METHOD		1	/16 Duty			

## **Block Diagram**



#### **Pin Connections**

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	RS	H/L	H: Data input L: Instruction data input
2	R/W	H/L H: Data read L: Data write	
3	E	H,H! L	Enable signal
4	D0	H/L	
5	D1	H/L	
6	D2	H/L	
7	D3	H/L	
8	D4	H/L	Data bus
9	D5	H/L	
10	D6	H/L	
11	D7	H/L	
12	$V_{SS}$	0V	Davida di mala
13	$V_{DD}$	5V	Power supply
14	$V_L$	~+0.6V	Contrast control