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SPECIFICATION

CUSTOMER ： _____

MODULE NO.: WG12864V5

General Specification

Item	Dimension	Unit
Number of Characters	128 x 64 dot	—
Module dimension	93.0 x 70.0 x 13.6(MAX)	mm
View area	72.0 x 40.0	mm
Active area	66.52 x 33.24	mm
Dot size	0.48 x 0.48	mm
Dot pitch	0.52 x 0.52	mm

Duty	1/32
View direction	6 o'clock

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_I	0	—	V_{DD}	V
Supply Voltage For Logic	V_{DD}-V_{SS}	0	—	6.7	V
Supply Voltage For LCD	V_0-V_{SS}	0	—	7.0	V

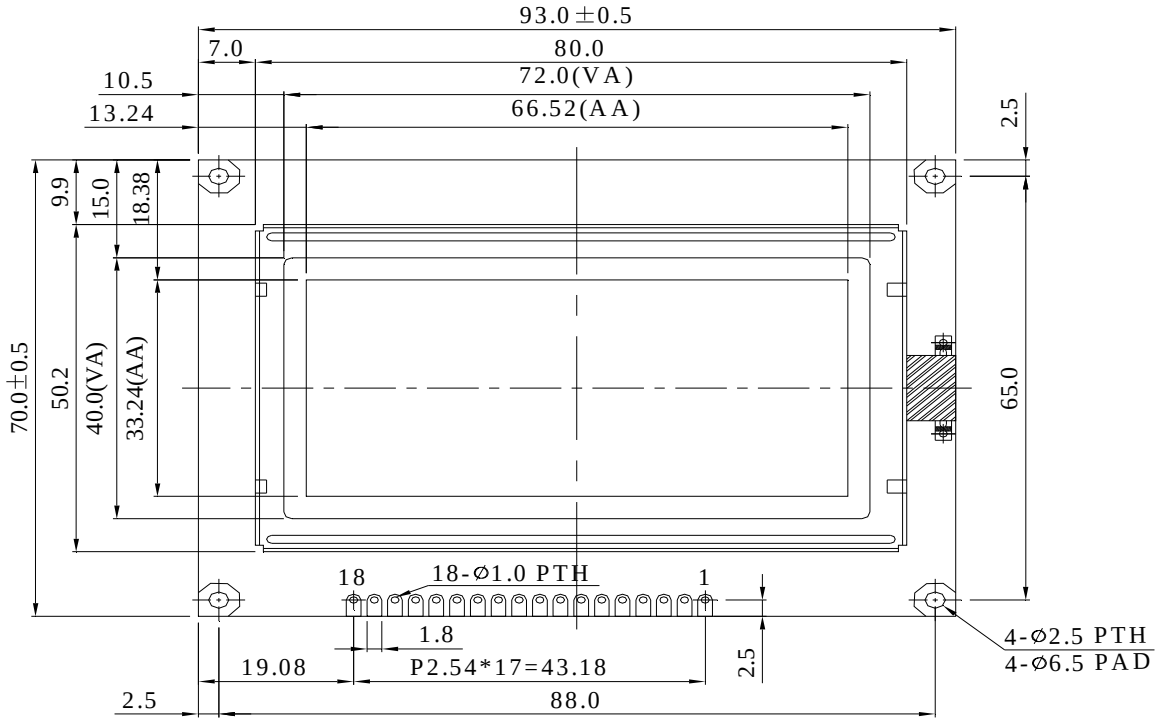
Electrical Characteristics

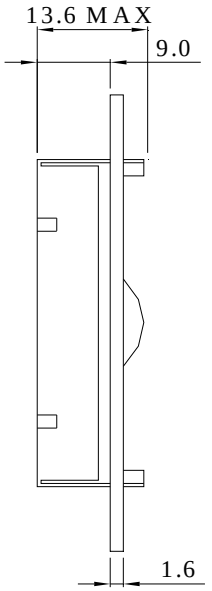
Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V_{DD}-V_{SS}	—	4.5	5.0	5.5	V
Supply Voltage For LCD	V_0-V_{SS}	Ta=-20℃ Ta=25℃ Ta=+70℃	— 4.4 —	— 4.6 —	— 4.8 —	V V V
Input High Volt.	V_{IH}	—	0.7V_{DD}	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	-0.3	—	0.6	V
Output High Volt.	V_{OH}	—	0.8 V_{DD}	—	V_{DD}	V
Output Low Volt.	V_{OL}	—	0	—	0.4	V
Supply Current	I_{DD}	—	—	2.4	3	mA

Interface Description

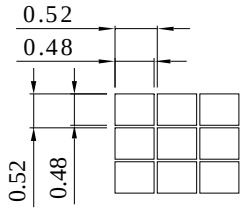
Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	5.0V	Supply voltage for logic
3	V_O		No connection
4	RS		H: Data , L : Instruction
5	R/W	H/L	H: Read (MPU←Module) , L: Write (MPU→Module)
6	E	H/L	ENABLE SIGNAL
7	DB0	H/L	Data bus line
8	DB1	H/L	Data bus line
9	DB2	H/L	Data bus line
10	DB3	H/L	Data bus line
11	DB4	H/L	Data bus line
12	DB5	H/L	Data bus line
13	DB6	H/L	Data bus line
14	DB7	H/L	Data bus line
15	A	—	Power Supply for LED backlight (+)
16	K	—	Power Supply for LED backlight (-)
17	RST	H/L	Reset LCM
18	Vout	—	Positive voltage for LCD

Contour Drawing &Block Diagram





LED B/L



DOT SIZE
SCALE 10/1

PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	RS
5	R/$\overline{W}$
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K
17	RST
18	Vout