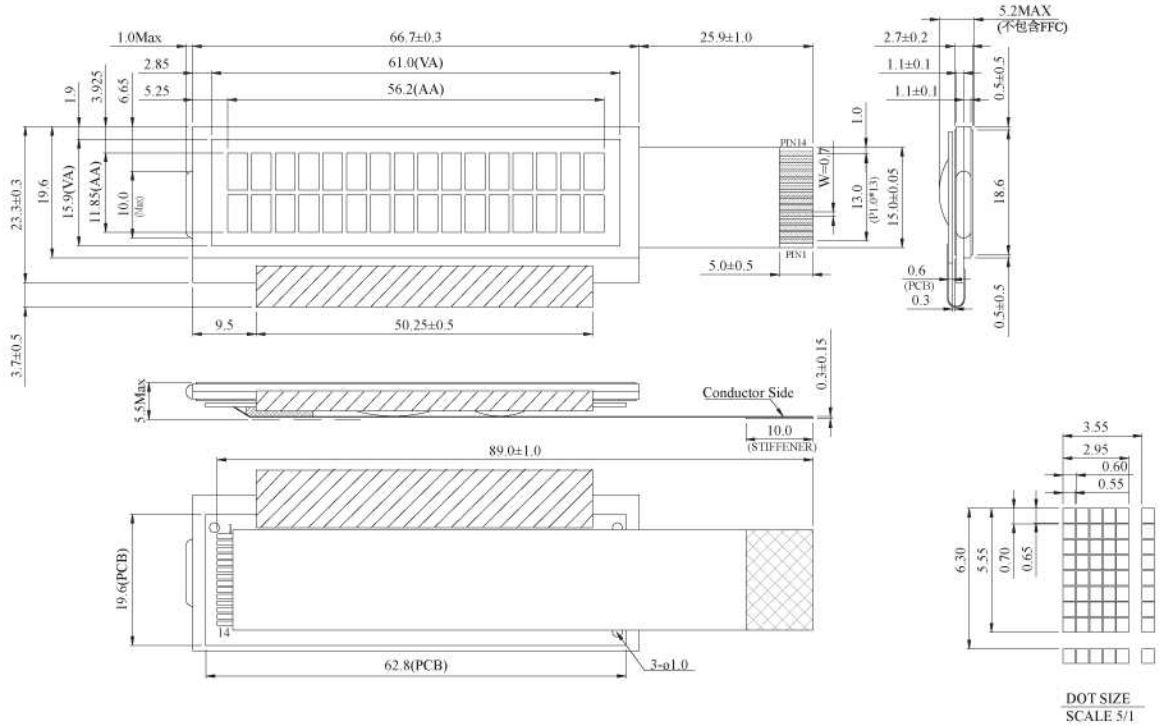


WH1602V Character 16x2

Dimension drawing



Character type

Feature

1. 5x8 dots includes cursor
2. Built-in controller (KS 0066 or Equivalent)
3. +5.0V power supply
4. 1/16 duty cycle

Mechanical Data

Item	Standard Value	Unit
Module Dimension	89.0x19.6	mm
Viewing Area	61.0x15.9	mm
Dot Size	0.55x0.60	mm
Dot Pitch	0.60x0.70	mm

Pin NO.	Symbol	Function
1	Vdd	Supply voltage for logic
2	Vo	Contrast Adjustment
3	RS	H: Data L: Instruction
4	R/W	H: read data L: write data
5	E	Enable signal
6	DB0	Data bus line
7	DB1	Data bus line
8	DB2	Data bus line
9	DB3	Data bus line
10	DB4	Data bus line
11	DB5	Data bus line
12	DB6	Data bus line
13	DB7	Data bus line
14	Vss	Ground

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	7.0	V
Input Voltage	VI	-0.3	---	VDD	V

Note: VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	---	4.7	5.0	5.3	V
Supply Current	IDD	VDD=5V	---	1.0	1.2	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20°C	5.0	5.1	5.7	V
		0°C	4.6	4.8	5.2	
		25°C	4.1	4.5	4.7	
		50°C	3.9	4.2	4.5	
LED Forward Voltage	VF	25°C	---	---	---	V
LED Forward Current	IF	25°C	---	---	---	mA
EL Power Supply Current	IEF	V _{led} =110VAC, 400Hz	---	---	---	mA