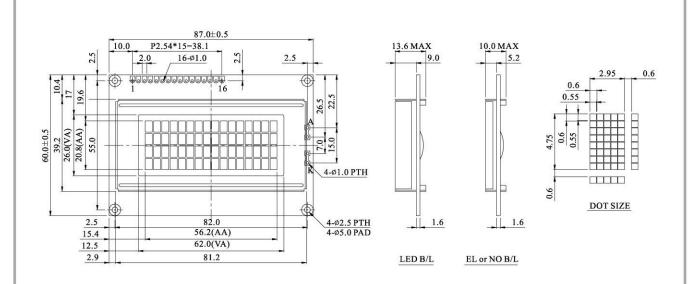
WH1604A 16x4 Character

Dimension drawing



Feature

- 1. 5x8 dots includes cursor
- 2. Built-in controller (KS 0066 or Equivalent)
- 3. +5V power supply (Also available for +3V)
- 4. 1/16 duty cycle
 5. LED can be driven by pin1,pin2,pin15,pin16 or A and K
- 6. N.V. optional for +3V power supply

Pin NO.	Symbol	Function
1	Vss	GND
2	Vdd	+3V or + 5V
3	Vo	Contrast Adjustment
4	RS	H/L Register select signal
5	R/W	H/L Read / write signal
6	Е	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/Vee	+4.2V for LED(RA=0 Ω) /Negative Voltage output
16	К	Power supply for B/L (0V)

Mechanical Data

Item	Standard Value	Unit
Module Dimension	85.0x32.6	mm
Viewing Area	66.0x17.0	mm
Mounting hole	82.0x55.0	mm
Character Size	2.95x5.55	mm

Absolute Maximum Rating

16	Complete at	Stan			
Item	Symbol	min.	typ.	max.	Unit
Power Supply	VDD-VSS	-0.3		7.0	٧
Input Voltage	VI	-0.3		VDD	V

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

Electronical Characteristics

14	0	0	Stan							
Item	Symbol	Condition	min.	typ.	max.	Unit				
Innut Valtana		VDD=+5V	4.7	5.0	5.3	٧				
Input Voltage	VDD	VDD=+3V	2.7	3.0	5.3	٧				
Supply Current	IDD	VDD=5V		1.0	1.2	mA				
		-20°C	5.0	5.1	5.7					
Recommended LC Driving	VDD-V0	0°C	4.6	4.8	5.2					
Voltage for Normal Temp. Version module		25°C	25°C 4.1 4.5							
		50°C	3.9	4.2	4.5					
		70°C	3.7	3.9	4.3					
LED Forward Voltage	VF	25°C		4.2	4.6	v				
LED Forward Current	IF	25°C		220	440	mA				
EL Power Supply Current	IEL	Vel=110VAC;400Hz			5.0	mA				

Display Character Address Code:

	35 M	200	- 9	100	1000	200	20.5	e		100	1950					
Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01						1								0F
DD RAM Address	40	41														4F
DD RAM Address											П	Т				1F
DD RAM Address																5F

