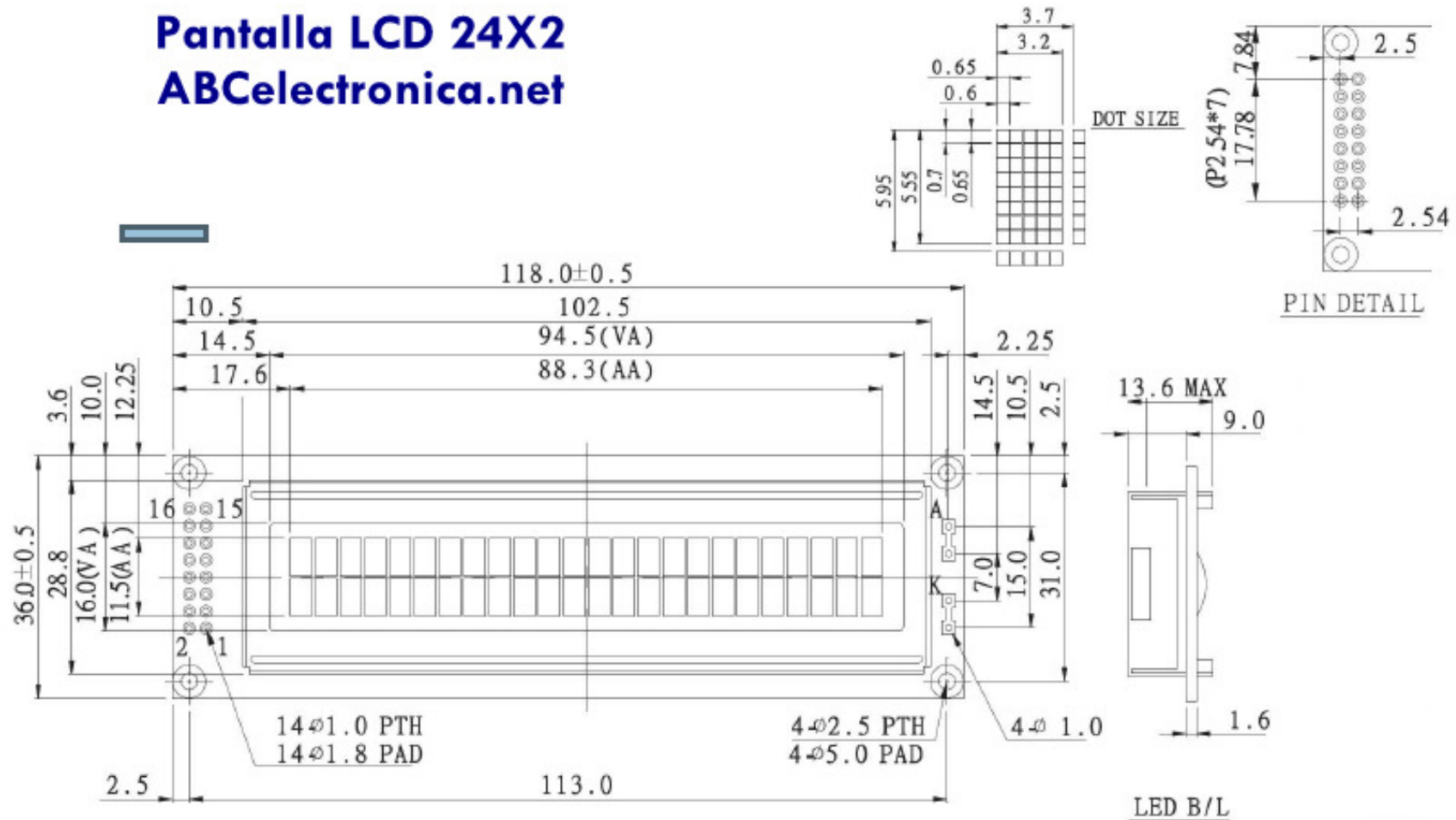


**Pantalla LCD 24X2**  
**ABCelectronica.net**

*Dimension drawing*



# ABCelectronica.net

## ***Mechanical Data***

Item	Standard Value	Unit
Module Dimension	118.0x36.0	mm
Viewing Area	94.5x16.0	mm
Mounting hole	113.0x 31.0	mm
Character Size	3.2x5.55	mm

## ***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.

## ***Feature***

1. 5x8 dots includes cursor
2. Built-in controller (HD44780 or Equivalent)
3. +5V power supply
4. 1/16 duty cycle
5. LED can be driven by pin15, pin16 or A and K

## Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	VDD=+5V	4.7	5.0	5.3	V
		VDD=+3V	2.7	3.0	5.3	V
Supply Current	IDD	VDD=5V	---	0.8	1.1	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C	5.1	5.3	5.7	V
		0°C	4.6	4.9	5.2	
		25°C	4.1	4.5	4.7	
		50°C	3.9	4.2	4.5	
		70°C	3.7	3.9	4.3	
LED Forward Voltage	VF	25°C	---	5.0	5.3	V
LED Forward Current	IF	25°C	---	140	150	mA

## Display Character Address Code :

Display position

	1	2	3	4	5	6	7	8	9	10	11	12	---	---	---	24
DD RAM Address	00	01														17
DD RAM Address	40	41														57

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