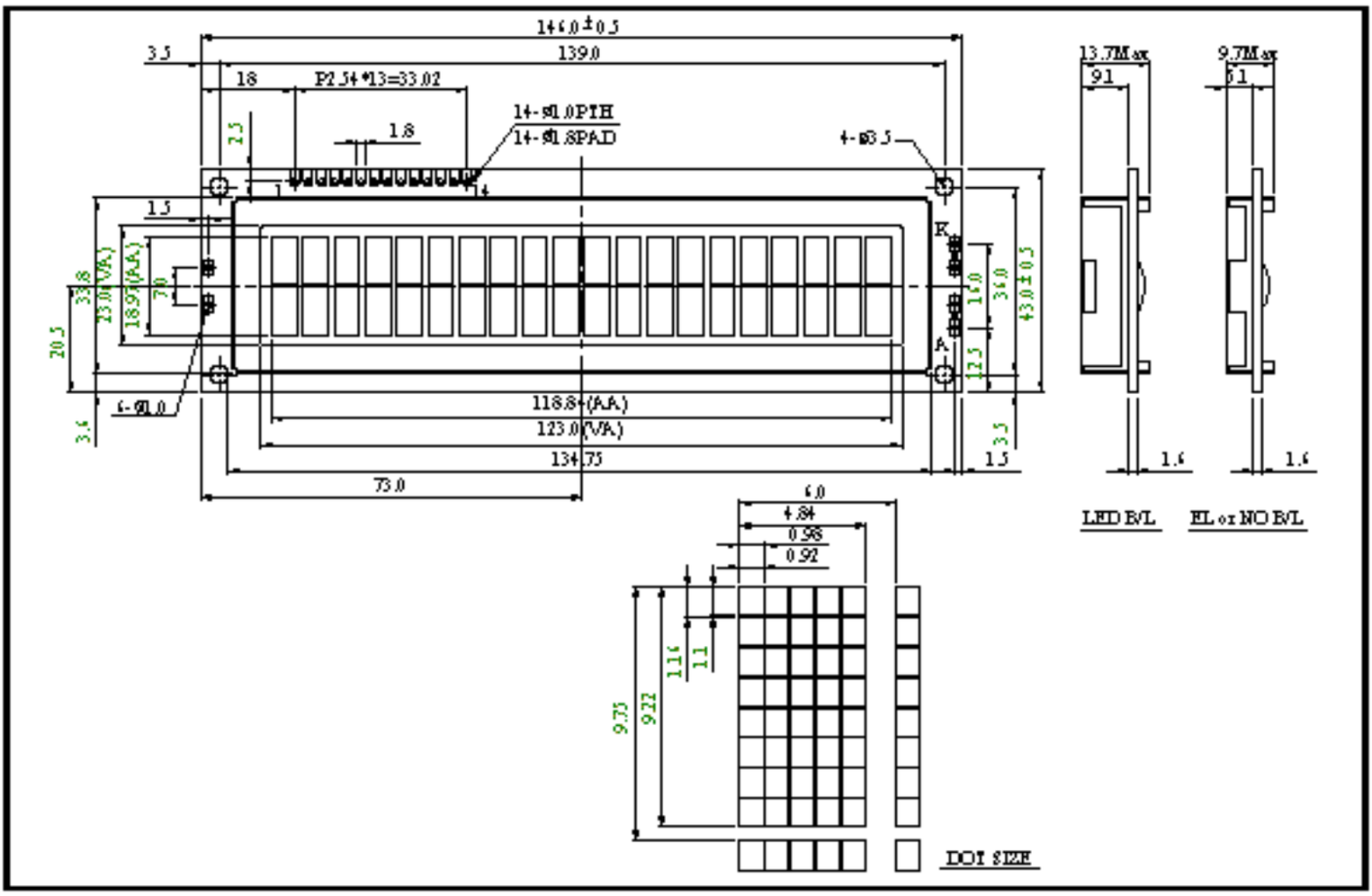

Feature

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/$\overline{W}$	H/L Read / write signal
6	E	H →L Enable signal
7	DB0	H/L Databus line
8	DB1	H/L Databus line
9	DB2	H/L Databus line
10	DB3	H/L Databus line
11	DB4	H/L Databus line
12	DB5	H/L Databus line
13	DB6	H/L Databus line
14	DB7	H/L Databus line
15	A/Vee	4.2V for LED (RA=0Ω)/Negative Voltage output
16	K	Power supply for B/L(0V)

Mechanical Data

Item	Standard Value	Unit
Module Dimension	146.0 x 43.0	mm
Viewing Area	123.0 x 23.0	mm
Mounting hole	139.0 x 36.0	mm
Character Size	4.84 x 9.22	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power supply	VDD-VSS	-0.3	--	7.0	V
Input Voltage	V1	-0.3	--	VDD	V

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

Electronical 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	---	1.65	---	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-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	
		70°C	3.7	3.9	4.3	
EL Power Supply Current	IEL	Vel=110 VAC,400Hz	---	---	5.0	mA

Display Character Address Code:

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	---	---	20
DD RAM Address	00	01														13
DD RAM Address	40	41														53