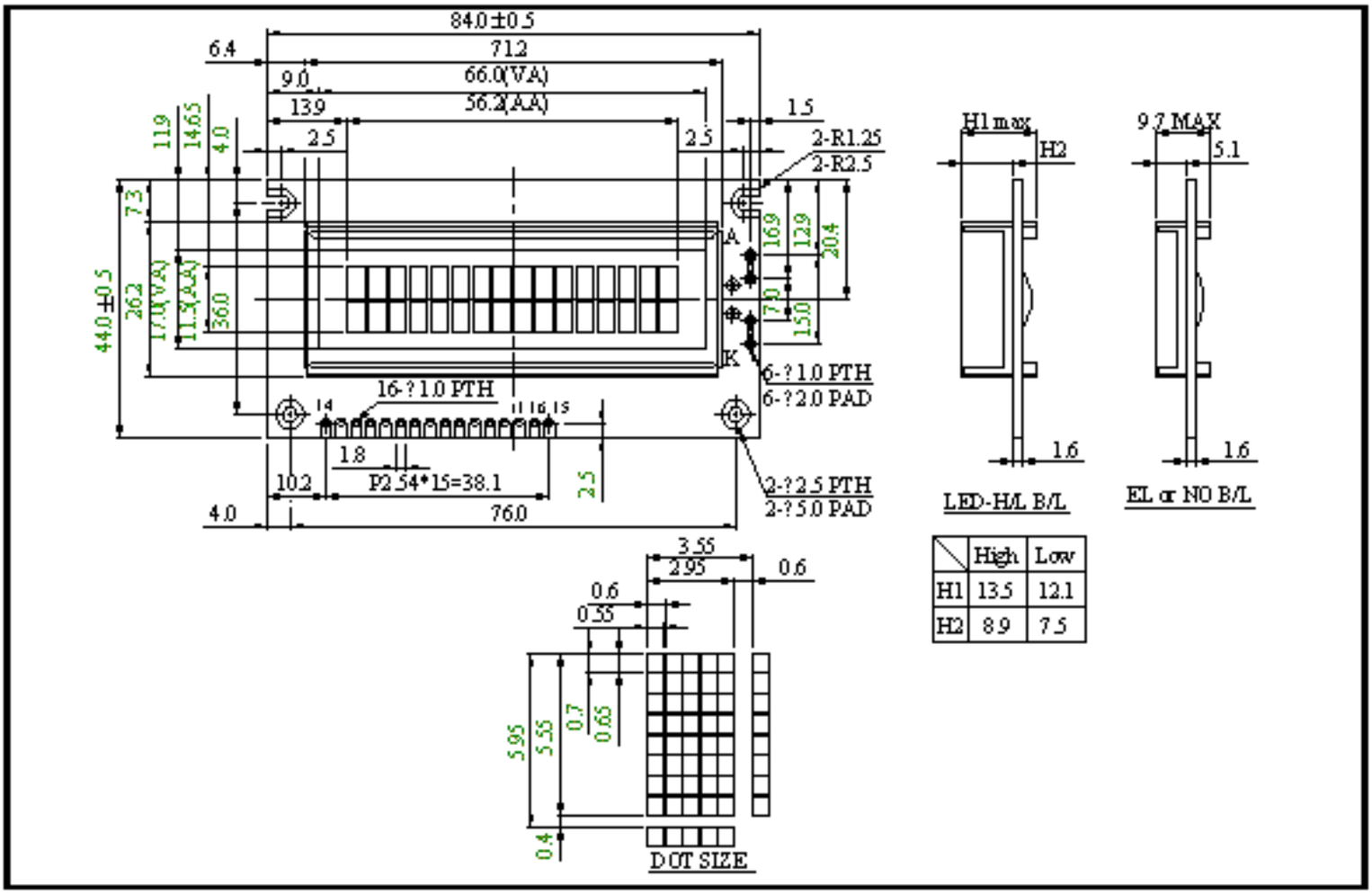

	High	Low
H1	13.5	12.1
H2	8.9	7.5

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	84.0 x 44.0	mm
Viewing Area	66.0 x 16.0	mm
Mounting hole	76.0 x 36.0	mm
Character Size	2.95 x 5.55	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
Supply Current	IDD	VDD=+5V		---	1.2	1.5	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20 ˚C		---	---	5.2	V
		0 ˚C		---	---	4.2	
		25 ˚C		---	3.8	---	
		50 ˚C		3.5	---	---	
		70 ˚C		3.2	---	---	
LED Forward Voltage	VF	25 ˚C		---	4.2	4.6	V
LED Forward Current	IF	25 ˚C	Array	---	130	260	mA
			Edge	---	20	40	mA
EL Power Supply Current	IEL	Vel=110V/AC,400Hz		---	---	5.0	mA

Display Character Address Code:

Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01														0F
DD RAM Address	40	41														4F