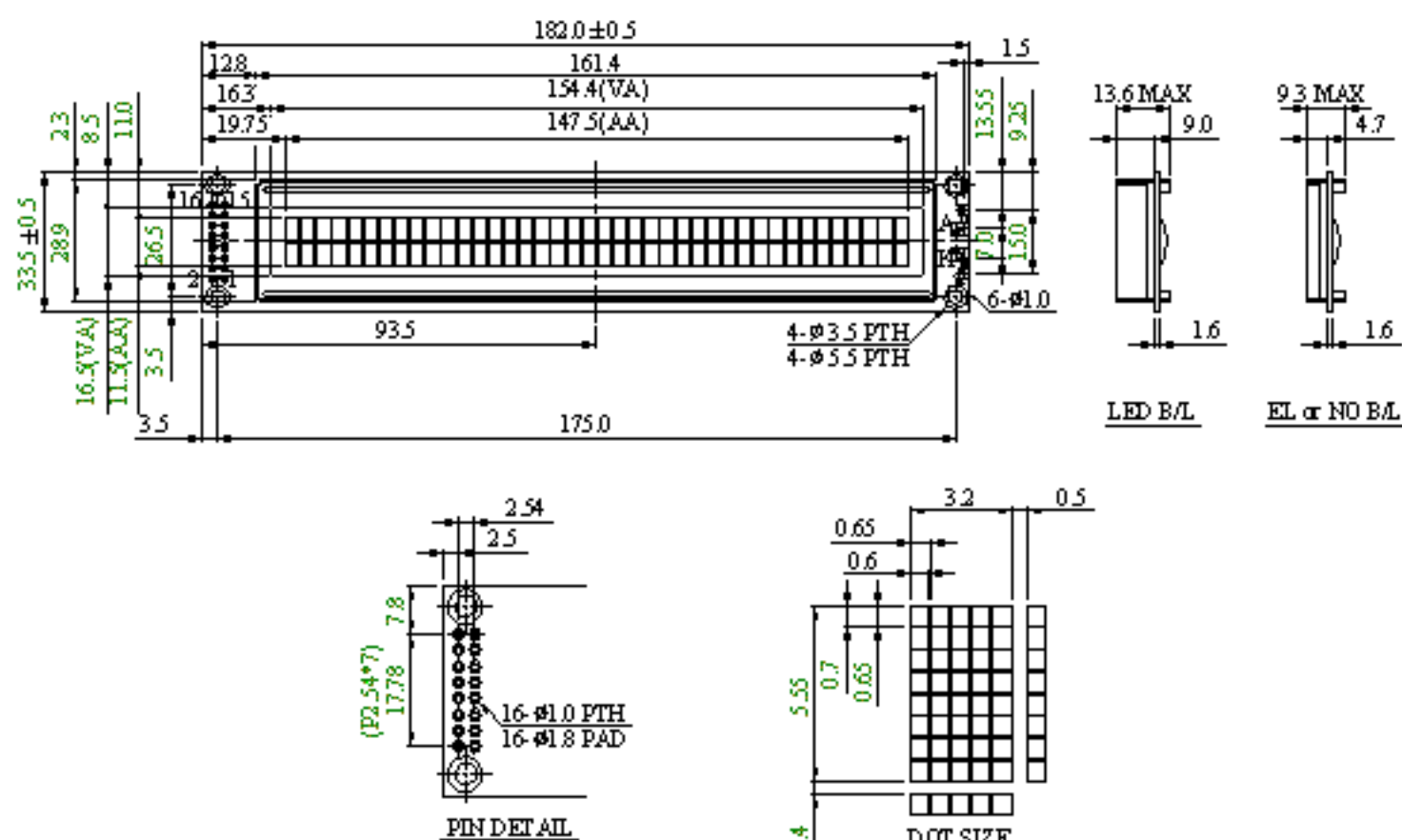




Feature

- 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

Mechanical Data

Item	Standard Value	Unit
Module Dimension	182.0 x 33.5	mm
Viewing Area	154.4 x 16.5	mm
Mounting hole	175.0 x 26.5	mm
Character Size	3.2 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	V _I	-0.3	---	VDD	V

Note : VSS=0 Volt, VDD=5.0Volt

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	3.3	V
Supply Current	IDD	VDD=+5V	---	6.0	8.0	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	
LED Forward Voltage	V _F	25 °C	---	4.2	4.6	V
LED Forward Current	I _F	25 °C	---	280	560	mA
EL Power	I _{EL}	V _{el} =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	...	...	40
DD RAM Address	00	01														27
DD RAM Address	40	41														67

Pin NO.	Symbol	Function
1	V _{SS}	GND
2	V _{DD}	+3V or +5V
3	V _O	Contrast Adjustment
4	RS	H/L Register select signal
5	R/ $\overline{W}$	H/L Read / write signal
6	E	H $\rightarrow$ 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/ $\overline{V}_{EE}$	4.2V for LED (R _A =0 Ω)/Negative Voltage output
16	K	Power supply for B/L(0V)