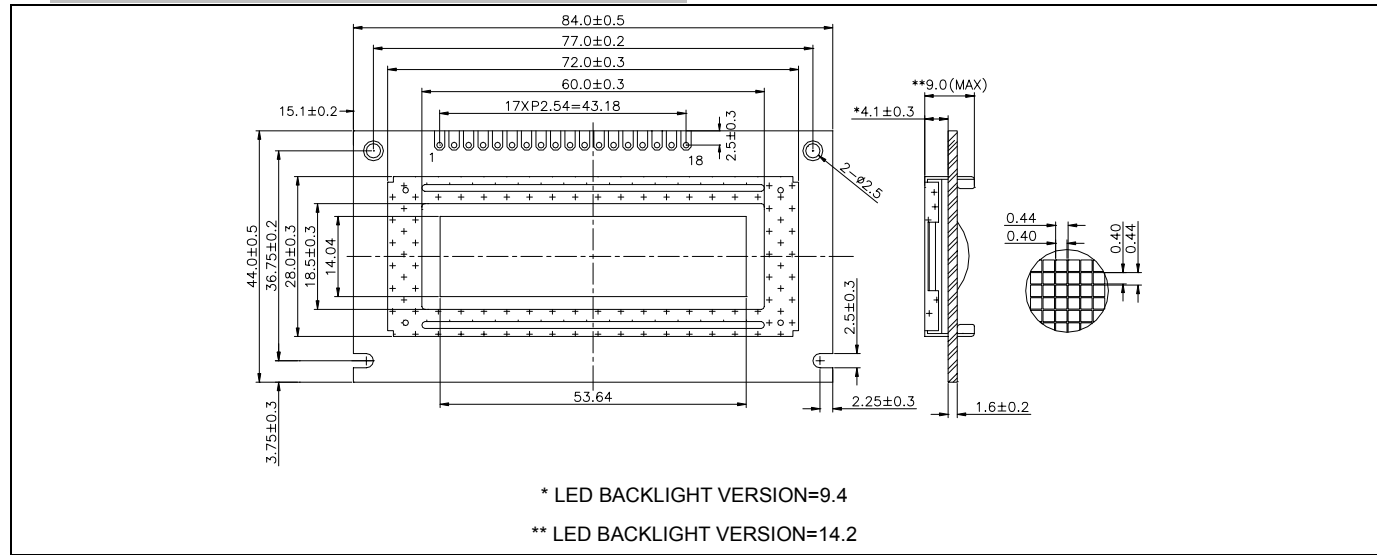


# HE126XX01

## 1. EXTERNAL DIMENSION AND DISPLAY PATTERN



## 2. MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	84.0×44.0×9.0 (LED:14.2)	mm
Viewing Area (W×H)	60.0×18.5	mm
Number of Dots (W×H)	122×32	dots
Dot Pitch (W×H)	0.44×0.44	mm
Dot Size (W×H)	0.4×0.4	mm

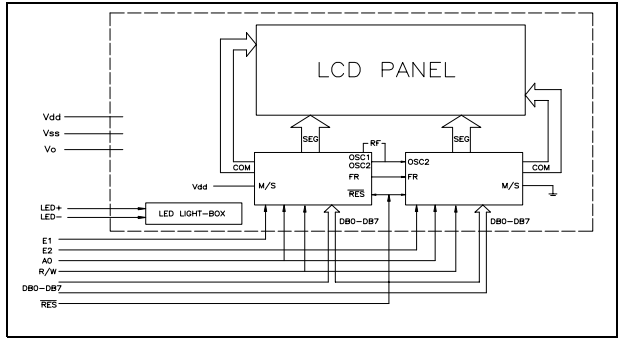
## 3. ELECTRICAL CHARACTERISTICS (Ta=25 °C)

ITEM	SYMBOL	CONDITION	SPEC. VALUE			UNIT	
			MIN.	TYP.	MAX.		
Supply Voltage (Logic)	V <sub>DD</sub> - V <sub>SS</sub>		4.5	5.0	5.5	V	
Supply Current (Logic)	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	2.0	3.0	mA	
Input Voltage	"HIGH"	V <sub>IH</sub>	0.8V <sub>DD</sub>	-	V <sub>DD</sub>	V	
	"LOW"	V <sub>IL</sub>	-	0	0.3V <sub>DD</sub>	V	
Output Voltage	"HIGH"	V <sub>OH</sub>	I <sub>OH</sub> =3.0mA	V <sub>DD</sub> + 2.4	-	V <sub>DD</sub>	V
	"LOW"	V <sub>OL</sub>	I <sub>OL</sub> =3.0mA	-	-	V <sub>DD</sub> +0.4	V
LCD Operating Voltage	V <sub>DD</sub> - V <sub>O</sub>	V <sub>DD</sub> =5V, Ta=25 °C	-	5.0	-	V	
Supply Voltage LCD Drive	I <sub>O</sub>		-	1.0	1.5	mA	

## 4. PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION	PIN	SYMBOL	SIGNAL DESCRIPTION
1	V <sub>SS</sub>	Ground	10	DB <sub>2</sub>	Data Bit 2
2	V <sub>DD</sub>	Logic Voltage	11	DB <sub>3</sub>	Data Bit 3
3	V <sub>O</sub>	Operating Voltage for LCD (Variable)	12	DB <sub>4</sub>	Data Bit 4
4	A0	Register Select (H : Data Code, L : Instruction Code)	13	DB <sub>5</sub>	Data Bit 5
5	E1	Enable for IC1	14	DB <sub>6</sub>	Data Bit 6
6	E2	Enable for IC2	15	DB <sub>7</sub>	Data Bit 7
7	R/W	H : Read (Module→MPU), L : Write (MPU→Module)	16	/RES	Reset Signal
8	DB <sub>0</sub>	Data Bit 0	17	A	Anode of LED Unit
9	DB <sub>1</sub>	Data Bit 1	18	K	Cathode of LED Unit

## 5. BLOCK DIAGRAM



## 6. BACKLIGHTING CHARACTERISTICS (Ta=25 °C) LED

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	V <sub>LED</sub>	-	-	4.1	4.25	V
Power Consumption	P <sub>LED</sub>	I <sub>F</sub> =90mA	-	369	-	mW
Luminous	I <sub>v</sub>	I <sub>F</sub> =90mA	-	-	-	cd/m <sup>2</sup>