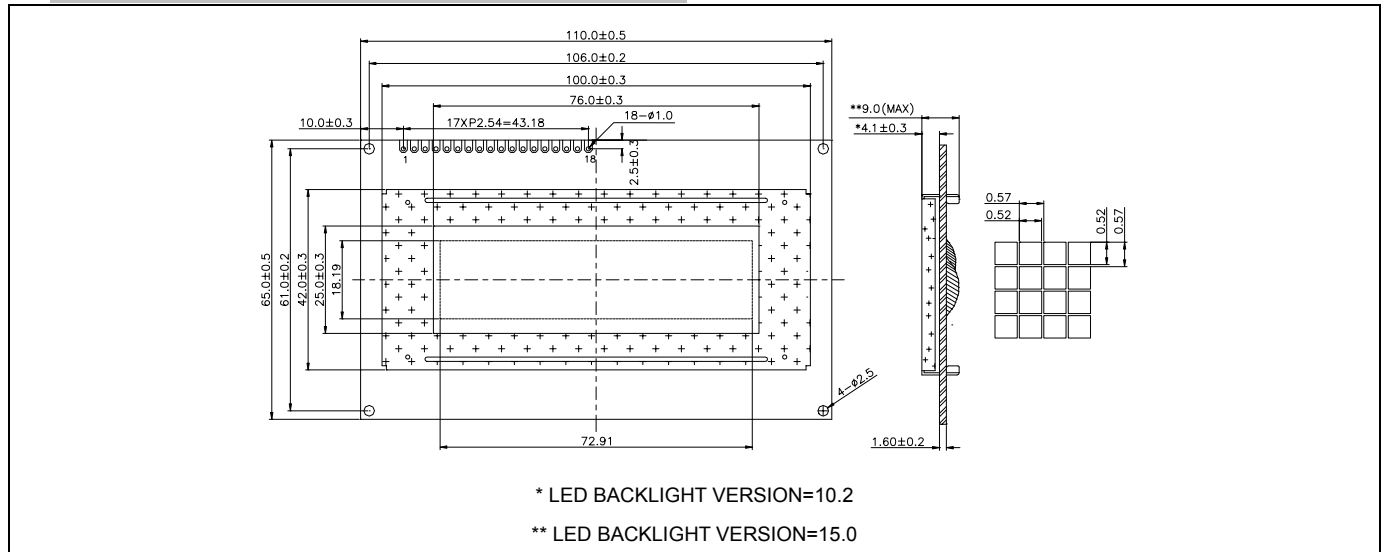


# HE126XX50

## 1. EXTERNAL DIMENSION AND DISPLAY PATTERN



## 2. MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	110.0×65.0×9.0 (LED:15.0)	mm
Viewing Area (W×H)	76.0×25.0	mm
Number of Dots (W×H)	128×32	dots
Dot Pitch (W×H)	0.57×0.57	mm
Dot Size (W×H)	0.52×0.52	mm

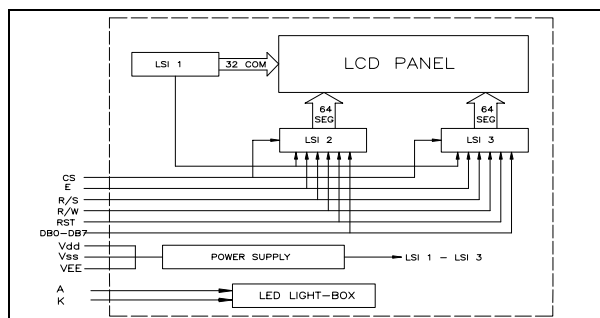
## 3. ELECTRICAL CHARACTERISTICS (Ta=25 °C)

ITEM	SYMBOL	CONDITION	SPEC. VALUE			UNIT
			MIN.	TYP.	MAX.	
Supply Voltage (Logic)	$V_{DD} - V_{SS}$		4.5	5.0	5.5	V
Supply Current (Logic)	$I_{DD}$	$V_{DD}=5V$	-	3.0	4.5	mA
Input Voltage	"HIGH"	$V_{IH}$	0.7 $V_{DD}$	-	$V_{DD}$	V
	"LOW"	$V_{IL}$	-	0	0.3 $V_{DD}$	V
Output Voltage	"HIGH"	$V_{OH}$	$I_{OH}=0.205mA$	2.4	-	V
	"LOW"	$V_{OL}$	$I_{OL}=1.6mA$	-	0.4	V
LCD Operating Voltage	$V_{DD} - V_o$	$V_{DD}=5V, Ta=25^{\circ}C$	-	9.0	-	V
Supply Voltage LCD Drive	$I_o$		-	2.0	3.0	mA

## 4. PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION	PIN	SYMBOL	SIGNAL DESCRIPTION
1	$V_{SS}$	Ground	10	DB <sub>1</sub>	Data Bit 1
2	$V_{DD}$	Logic Voltage	11	DB <sub>2</sub>	Data Bit 2
3	$V_{EE}$	Operating Voltage for LCD (Variable)	12	DB <sub>3</sub>	Data Bit 3
4	E	Chip Enable Signal	13	DB <sub>4</sub>	Data Bit 4
5	R/S	H : Data Code, L : Instruction Code	14	DB <sub>5</sub>	Data Bit 5
6	R/W	H : Read (Module → MPU), L : Write (MPU → Module)	15	DB <sub>6</sub>	Data Bit 6
7	RST	Reset Signal	16	DB <sub>7</sub>	Data Bit 7
8	CSB	Chip Select Signal for IC	17	A	Anode of LED Unit
9	DB <sub>0</sub>	Data Bit 0	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	$V_{LED}$	-	-	4.2	4.6	V
Power Consumption	$P_{LED}$	$I_F=240mA$	-	1008	-	mW
Luminous	$I_V$	$I_F=240mA$	-	200	-	cd/m <sup>2</sup>