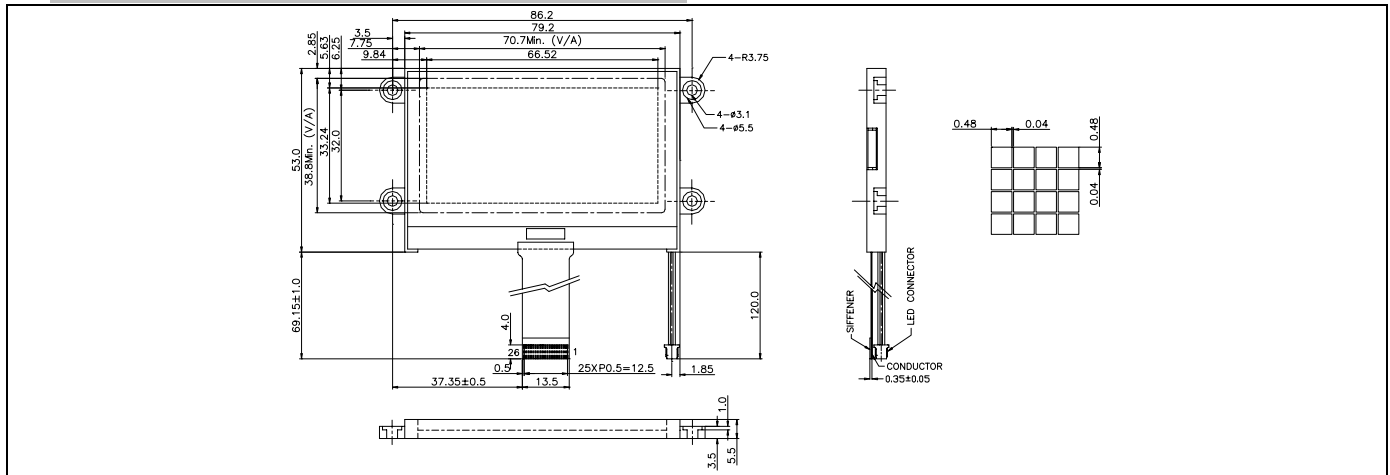


HE125XX51

1. EXTERNAL DIMENSION AND DISPLAY PATTERN



2. MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	93.7×53.0×5.5	mm
Viewing Area (W×H)	70.7×38.8	mm
Number of Dots (W×H)	128×64	dots
Dot Pitch (W×H)	0.52×0.52	mm
Dot Size (W×H)	0.48×0.48	mm

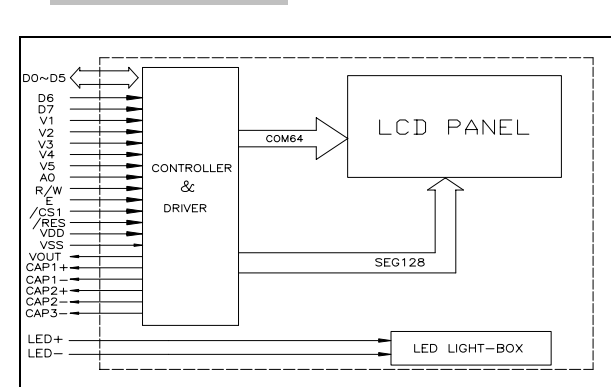
3. ELECTRICAL CHARACTERISTICS (Ta=25 °C)

ITEM	SYMBOL	CONDITION	SPEC. VALUE			UNIT
			MIN.	TYP.	MAX.	
Supply Voltage (Logic)	$V_{DD} - V_{SS}$		-	5.0	-	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}	2.4	-	0.3 V_{DD}	V
	"LOW"	V_{OL}	-	-	0.4	V
LCD Operating Voltage	$V_{DD} - V_o$	$V_{DD}=5V, Ta=25 °C$	-	8.5	-	V
Supply Voltage LCD Drive	I_o		-	0.8	1.0	mA

4. PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION	PIN	SYMBOL	SIGNAL DESCRIPTION
1	/CS1	Chip Select Signal	14	V_{DD}	Logic Voltage
2	/RES	Reset Signal	15	V_{SS}	Ground
3	A0	Register Select Signal	16	Vout	Voltage Converter Input/output
4	R/W	Read/Write Execution Control	17	CAP 3-	Cap. 3 Negative Connection Pin for Voltage Converter
5	E	Enable	18	CAP 1+	Cap. 1 Positive Connection Pin for Voltage Converter
6	DB ₁	Data Bit 0	19	CAP 1-	Cap. 1 Negative Connection Pin for Voltage Converter
7	DB ₂	Data Bit 1	20	CAP 2-	Cap. 2 Negative Connection Pin for Voltage Converter
8	DB ₃	Data Bit 2	21	CAP 2+	Cap. 2 Positive Connection Pin for Voltage Converter
9	DB ₄	Data Bit 3	22	V1	LCD Driver Voltage
10	DB ₅	Data Bit 4	23	V2	LCD Driver Voltage
11	DB ₆	Data Bit 5	24	V3	LCD Driver Voltage
12	DB ₇	Data Bit 6	25	V4	LCD Driver Voltage
13	DB ₈	Data Bit 7	26	V5	LCD Driver Voltage

5. BLOCK DIAGRAM



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

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	V_{LED}	-	3.9	4.1	4.3	V
Power Consumption	P_{LED}	$I_F = 90mA$	-	-	600	mW
Luminous	I_V	$I_F = 90mA$	22	26	-	cd/m ²