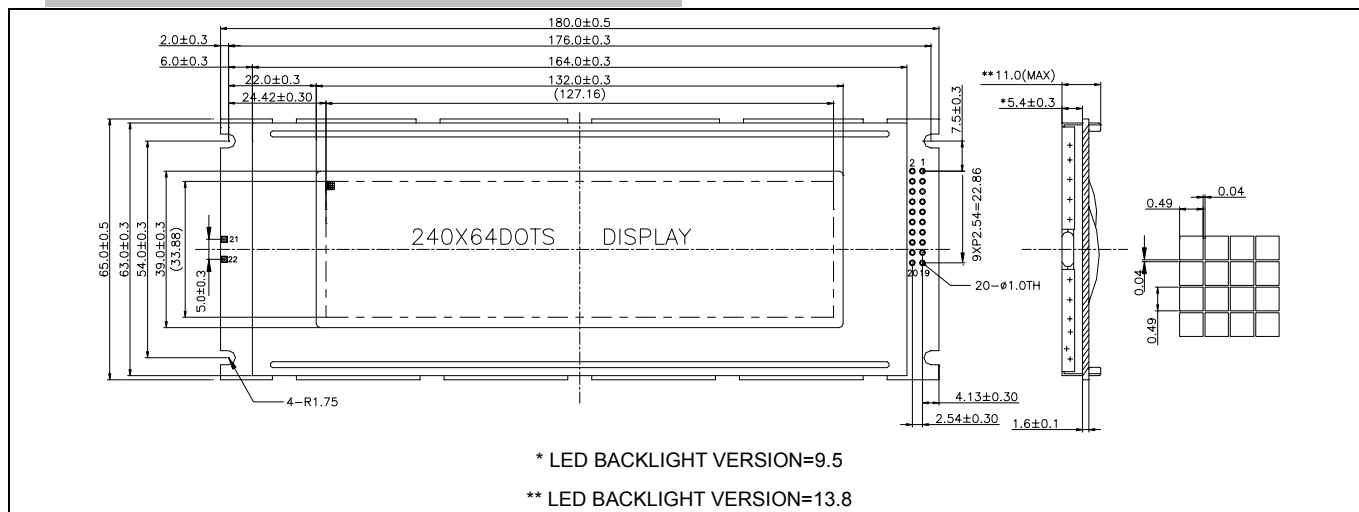


HE245XX01

240 X 64 Dots

1、EXTERNAL DIMENSION AND DISPLAY PATTERN



2、MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	180.0×65.0×11.0 (LED:13.8)	mm
Viewing Area (W×H)	132.0×39.0	mm
Number of Dots (W×H)	240×64	dots
Dot Pitch (W×H)	0.53×0.53	mm
Dot Size (W×H)	0.49×0.49	mm

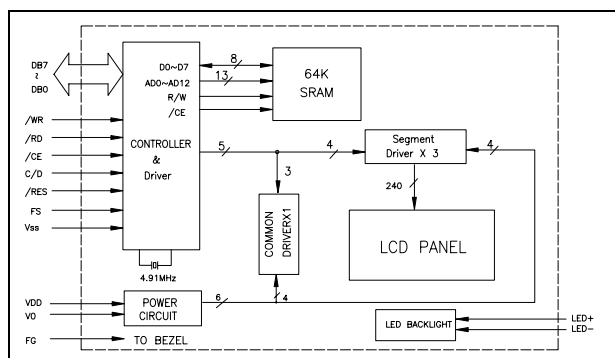
3、ELECTRICAL CHARACTERISTICS (Ta=25℃)

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}	$V_{DD}=5V$	-	8.7	13.0	mA
Input Voltage	"HIGH"	V_{IH}	-	$V_{DD} - 2.2$	-	V
	"LOW"	V_{IL}	-	0	-	V
Output Voltage	"HIGH"	V_{OH}	$I_{OH}=3.0mA$	$V_{DD} - 0.3$	-	V
	"LOW"	V_{OL}	$I_{OL}=3.0mA$	-	0.3	V
LCD Operating Voltage	$V_{DD} - V_o$	$V_{DD}=5V, Ta=25℃$	-	13.6	-	V
Supply Voltage LCD Drive	I_o		-	2.0	3.0	mA

4、PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION	PIN	SYMBOL	SIGNAL DESCRIPTION
1	FG	Frame Ground	12	DB ₁	Data Bit 1
2	V _{SS}	Ground	13	DB ₂	Data Bit 2
3	V _{DD}	Logic Voltage	14	DB ₃	Data Bit 3
4	V _o	Operating Voltage for LCD (Variable)	15	DB ₄	Data Bit 4
5	/WR	Write Signal	16	DB ₅	Data Bit 5
6	/RD	Read Signal	17	DB ₆	Data Bit 6
7	/CE	Chip Enable Signal	18	DB ₇	Data Bit 7
8	C/D	H : Instruction Code, L : Data Code	19	FS	Font Select Signal (H : 6×8dots, L : 8×8dots)
9	NC	No Connection	20	NC	No Connection
10	/RES	Reset Signal	21	A	Anode of LED Unit
11	DB ₀	Data Bit 0	22	K	Cathode of LED Unit

5、BLOCK DIAGRAM



6、BACKLIGHTING CHARACTERISTICS (Ta=25℃)

ITEM	SYMBOL	CONDITION	MIN	TYP	MAX	UNIT
Supply Voltage	V_{LED}	-	-	8.2	8.5	V
Power Consumption	P_{LED}	$I_F=400mA$	-	3280	-	mW
Luminous	I_V	$I_F=400mA$	-	-	-	cd/m ²