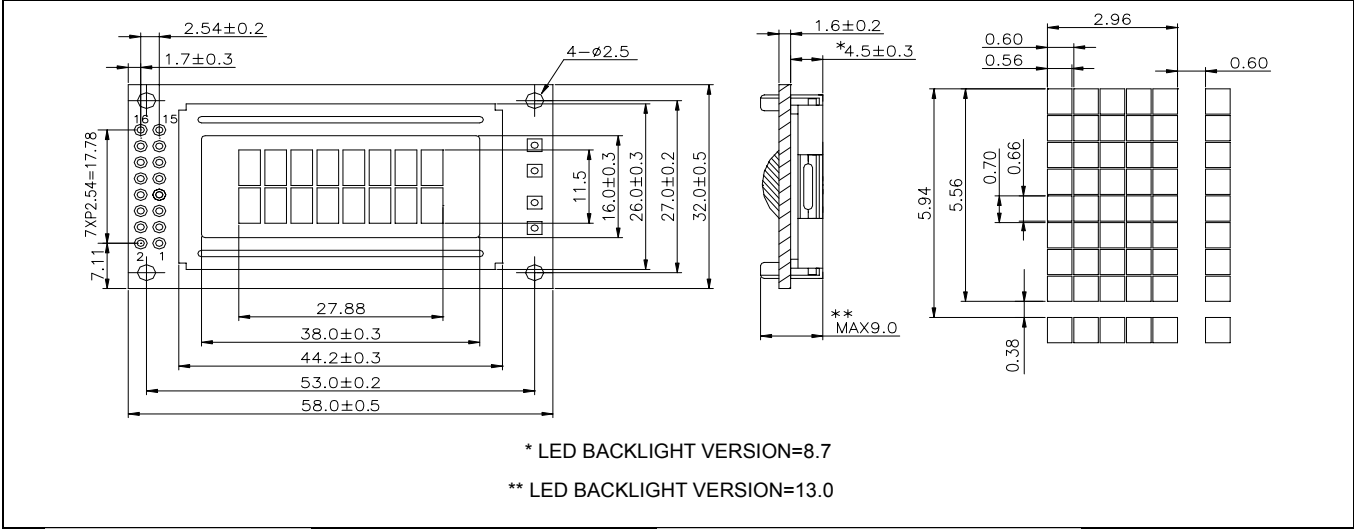


HY082XX02

8 CHAR X 2 LINE

1. EXTERNAL DIMENSION AND DISPLAY PATTERN



2. MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	58.0×32.0×9.0 (LED:13.0)	mm
Viewing Area (W×H)	38.0×16.0	mm
Character Font (W×H)	5×7 with Cursor	dots
Character Size (W×H)	2.96×5.56	mm
Character Pitch (W×H)	3.56×5.94	mm
Dot Size (W×H)	0.56×0.66	mm

5. ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage (Logic)	$V_{DD} - V_{SS}$	-0.3	7.0	V
Supply Voltage (Driver)	V_o	$V_{DD} - 12$	$V_{DD} + 0.3$	V
Input Voltage	V_{IN}	-0.3	$V_{DD} + 0.3$	V

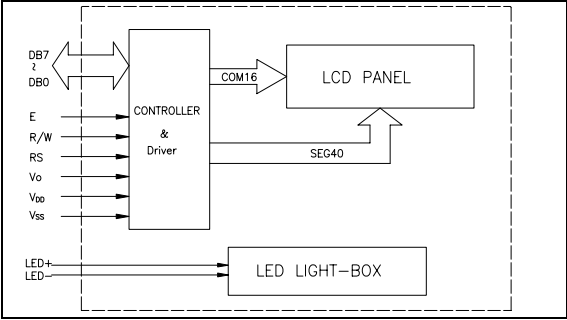
3. PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION
1	V_{SS}	GND (0V)
2	V_{DD}	Power Supply
3	V_o	Supply Voltage LCD Driving
4	RS	Register Select Low = Instruction, High = Data
5	R/W	Read/Write Low = MPU to LCM, High = LCM to MPU
6	E	Enable R/W= Low : Data are talking over at falling edge R/W=High : Data can be read at E=1
7 ~ 14	DB ₀ to DB ₇	Data Bus-Software Selectable 4 or 8bit Mode
15	A	Anode of LED Unit
16	K	Cathode of LED Unit

6. 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}	$V_{DD}=5V$	-	0.8	2.0	mA
Input Voltage	"HIGH"	V_{IH}	-	2.2	-	V_{DD} V
	"LOW"	V_{IL}	-	-0.3	-	0.6 V
Output Voltage	"HIGH"	V_{OH} $I_{OH}=0.2mA$	2.4	-	-	V
	"LOW"	V_{OL} $I_{OL}=1.2mA$	-	-	0.4	V
LCD Operating Voltage	V_{DD}, V_o	$V_{DD}=5V, Ta=25°C$	4.5	4.7	5.0	V
Supply Voltage LCD Drive	I_o		-	1.0	1.5	mA

4. BLOCK DIAGRAM



7. BACKLIGHTING CHARACTERISTICS (Ta=25°C)

TEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V_{LED}	-	3.8	4.0	4.2	V
Power Consumption	P_{LED}	$I_F=60mA$	-	240	600	mW
Luminous	I_V	$I_F=60mA$	82	103	-	cd/m ²