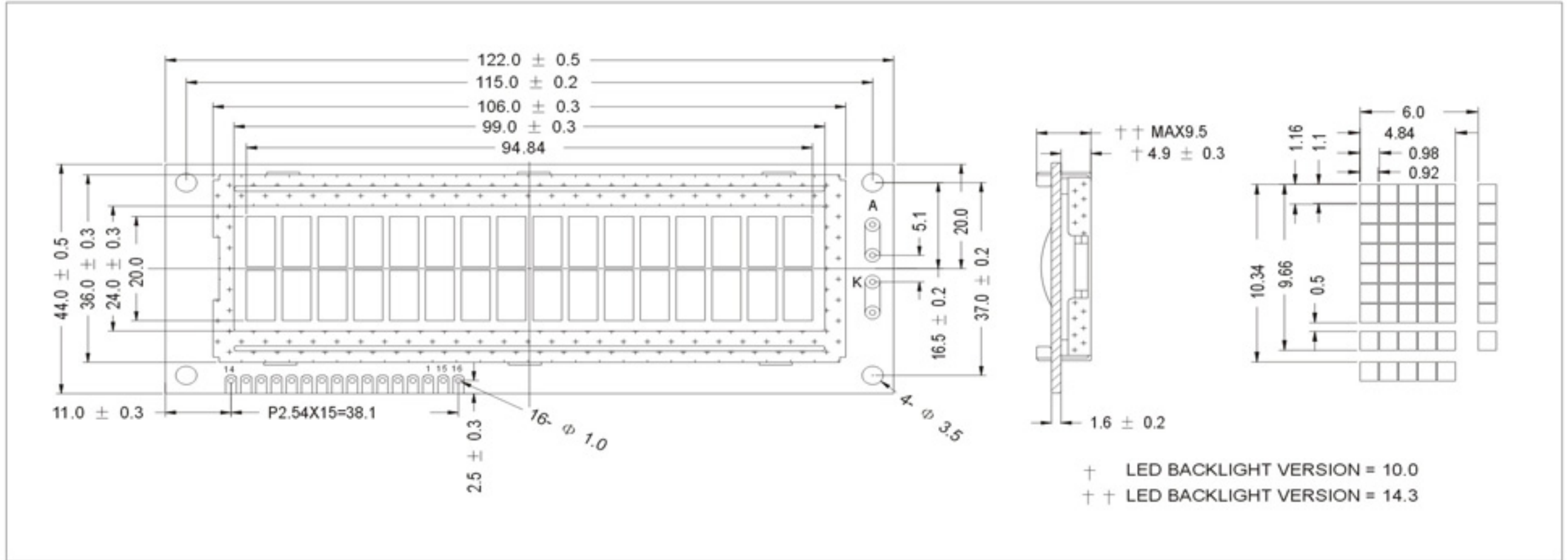


YMS162-02

16CHAR x 2LINE
1/16DUTY, 1/5BIAS

1 EXTERNAL DIMENSION AND DISPLAY PATTERN



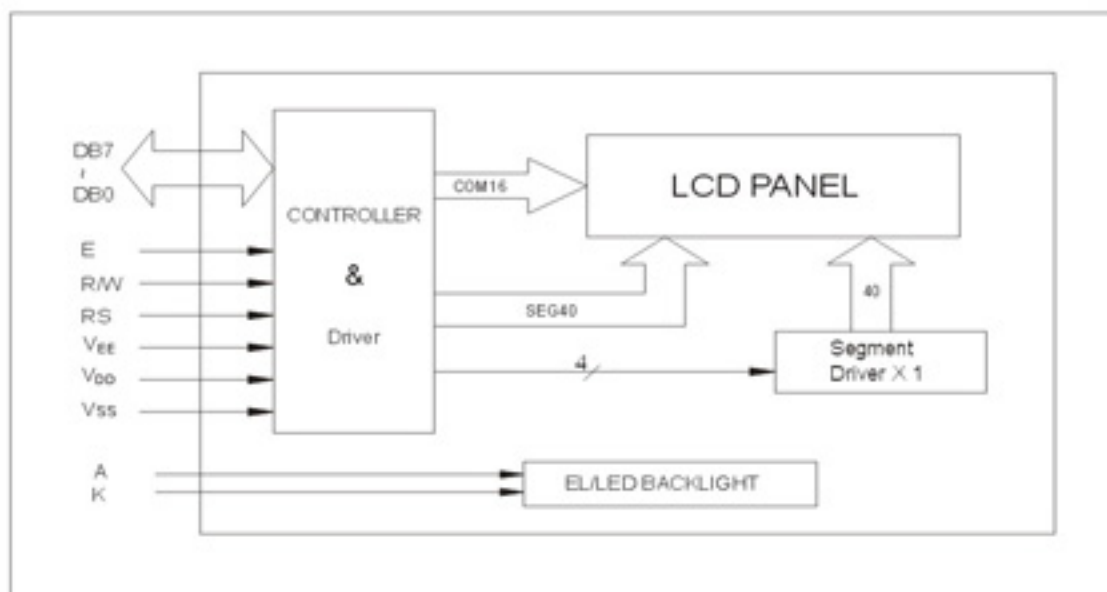
2 MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size(WXHXT)	122.0 x 44.0 x 9.5(LED:14.3)	mm
Viewing Area(WXH)	99.0 x 24.0	mm
Character Font(WXH)	5 x 7 with Cursor	dots
Character Size(WXH)	4.84 x 9.66	mm
Character Pitch(WXH)	6.0 x 10.34	mm
Dot Size(WXH)	0.92 x 1.1	mm

3 PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION
1	V _{SS}	GND(0V)
2	V _{DD}	Power Supply(5V)
3	V _{EE}	Supply Voltage LCD Driver
4	RS	Register Select-LOW=Instruction,HIGH=Data
5	R/W	Read/Write LOW=MPU to LCM,HIGH=LCM to MPU
6	E	Eable R/W=LOW:Data are talking over at falling edge R/W=HIGH:Data can be read at E=1
7 to 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

4 BLOCK DIAGRAM



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 _{DD} -V _{EE}	-0.3	13.5	V
Input Voltage	V _{IN}	-0.3	V _{DD} +0.3	V
Operating Temp.	See page 9			
Storage Temp.	See page 9			

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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 _{IN}	2.2	-	V _{DD}	V
	"LOW"	V _L	-0.3	-	0.6	V
Output Voltage	"HIGH"	V _{OH}	2.4	-	-	V
	"LOW"	V _{OL}	-	-	0.4	V
LCD Operating Voltage	V _{DD} -V _{EE}	V _{DD} =5V	4.5	4.7	5.0	V
Supply Voltage LCD Drive	I _{EE}		-	1.0	1.5	mA

Note(1) : () Value is high Reliability type
Note(2) : Electro-Optical Characteristics: See page 6.

7

LED

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V _{LED}	-	-	4.2	4.6	V
Power Consumption	P _{LED}	I _F =270 mA	-	1140	-	mW
Luminous	I _V	I _F =270 mA	-	185	-	cd/m ²