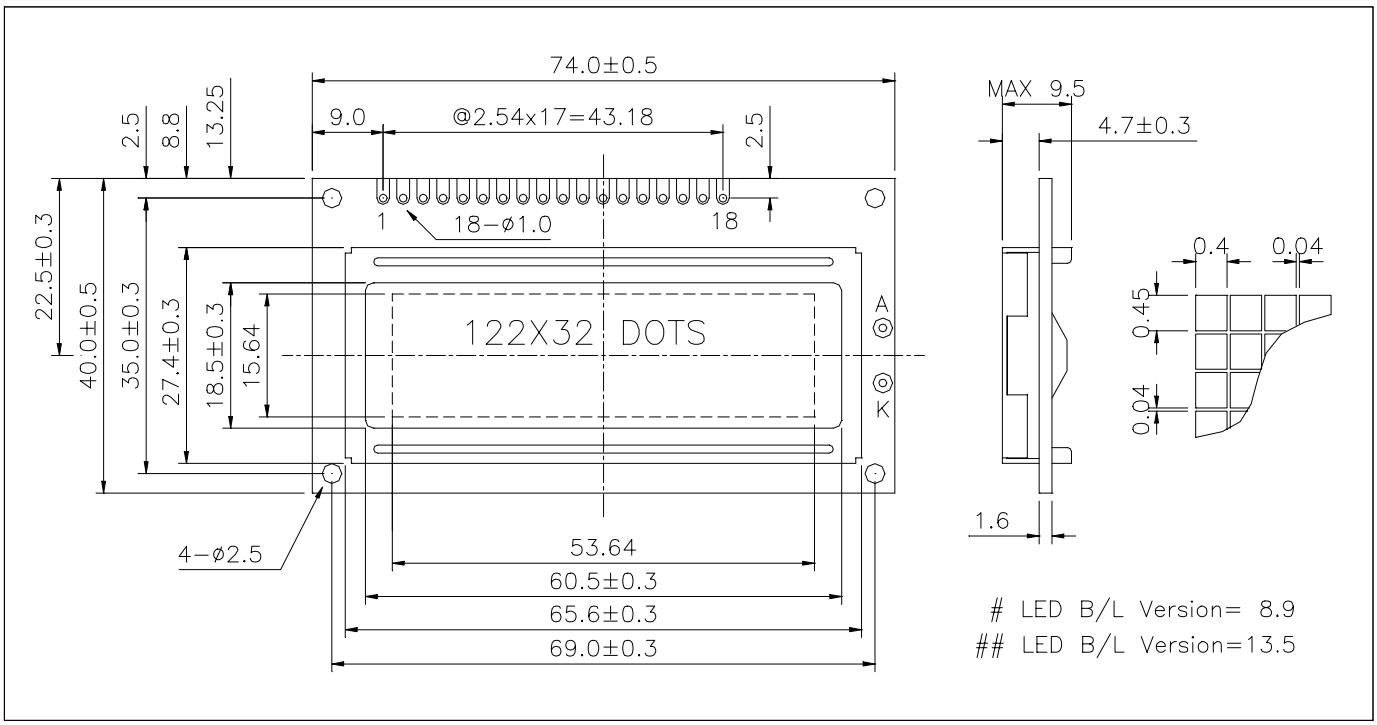


ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V_{DD}- V_{SS}	-0.3	7.0	V
Supply Voltage(LCD)	V_O - V_{SS}	-0.3	7.0	V
Input Voltage	V_I	-0.3	V_{DD}+ 0.3	V
Operating Temp.	T_{opr}	-20	70	˚C
Storage Temp.	T_{stg}	-30	80	˚C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	74.0 x 40.0 x 9.5/13.5	mm
Viewing Area (W x H)	60.5 x 18.5	mm
Dot Pitch (W x H)	0.44 x 0.49	mm
Dot Size (W x H)	0.40 x 0.45	mm
Weight (Reflective/LED)	Approx. 28 / 38	g

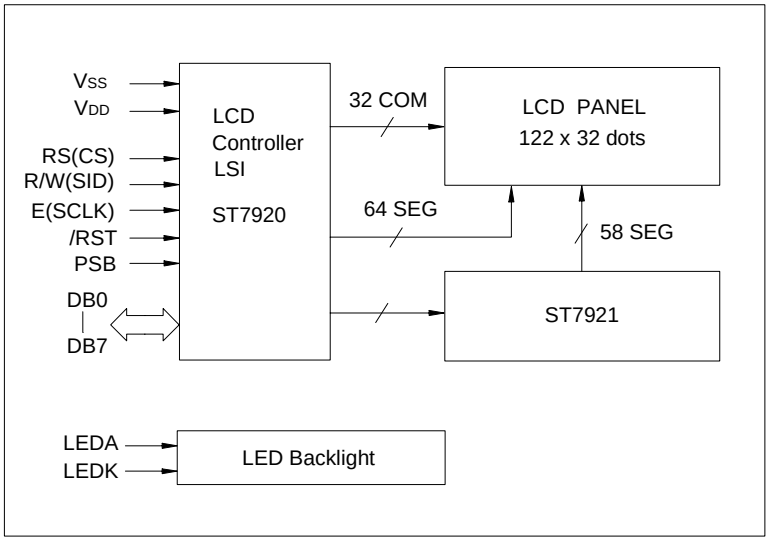
ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.25V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	--	0.7V_{DD}	--	V_{DD}	V
Input Low Voltage	V_{IL}	--	- 0.3	--	0.6	V
Output High Voltage	V_{OH}	I_{OH} = - 0.1mA	0.8V_{DD}	--	V_{DD}	V
Output Low Voltage	V_{OL}	I_{OL} = 0.1mA	0	--	0.4	V
Supply Current	I_{DD}	V_{DD} = 5.0V	--	3.0	5.0	mA
LCD Driving Voltage	V_O - V_{SS}	Ta=25˚C	--	6.5	--	V

PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V_{SS}	0V	GND
2	V_{DD}	+5V	Supply Voltage for Logic
3	NC	--	No connection
4	RS (CS)	H/L	H : Data L : Instruction code (Chip enable for serial mode)
5	R/W (SID)	H/L	H : Read L : Write (Serial data for serial mode)
6	E(SCLK)	H,H→L	Enable (Clock for serial mode)
7	DB0	H/L	Data bus line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	PSB	H/L	H: Parallel mode L: Serial mode
16	/RST	L	Reset signal, active "L"
17	LEDA	+5V	Power supply for LED backlight
18	LEDK	0V	

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS (Ta=25˚C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V_f	4.1	4.3	V
Forward Current	I_f	120	--	mA
Emission Wave Length	λ_p	568	--	nm