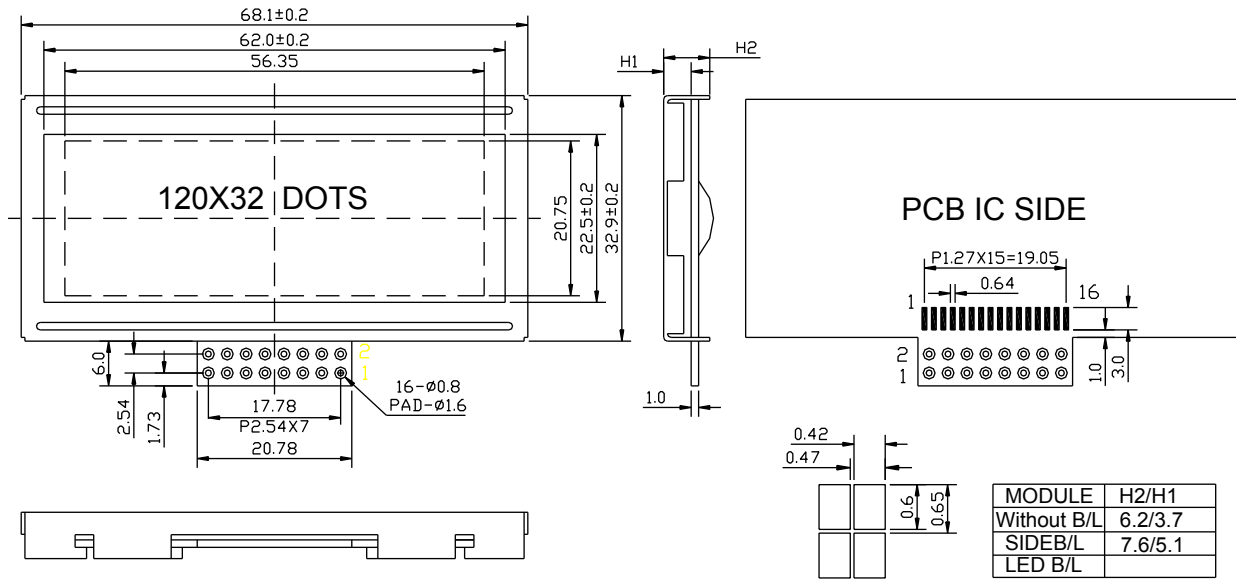
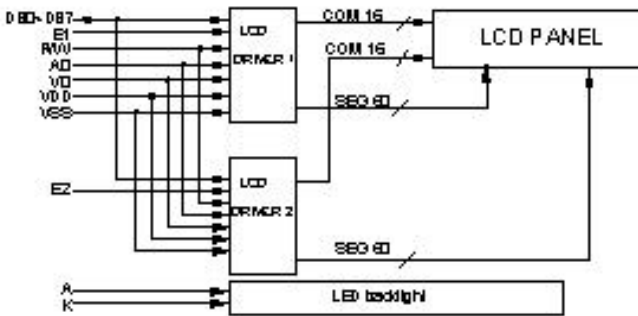


**Outline Dimension**



**Block diagram**



**Feature**

1. 120X32 dots graphic LCD module
2. Built-in controller (SED1520D0A)
3. 5.0V power supply (Also available for +3.0V)
4. STN; 1/32 duty; LED BKL or EL BKL

**Mechanical Data**

Item	Standard	Unit
Module dimension	68.1x32.9	mm
Viewing area	62.0x22.5	mm
Dot size	0.42x0.60	mm
Dot pitch	0.47x0.65	mm

**Absolute Maximum Rating**

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	-----	7.0	V
Input voltage	VI	-0.3	-----	VDD+0.3	

**Electronical characteristics**

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	-----	4.5	5.0	5.5	V
		-----	2.7	3.0	3.3	V
Supply current	I <sub>DD</sub>	VDD=5V	-----	1.0	2.0	mA
Recommended LCD driving voltage for normal temp version module	VDD-V0	-20°C	-----	-----	-----	V
		0 °C	4.7	4.7	5.0	
		25°C	4.3	4.5	4.7	
		50°C	4.1	4.3	4.5	
		70°C	-----	-----	-----	
LED forward voltage	VF	25°C	-----	4.2	4.6	V
LED forward current	IF	VF=4.2V	-----	100	-----	mA
EL power supply current	I <sub>EL</sub>	V <sub>EL</sub> =110V AC 400Hz	-----	-----	-----	mA

**Interface pin connections**

PIN NO	Symbol	Function
1	VSS □	Power supply
2	VDD □	
3	V0 □	Constrast adjustment
4	RS	H/L H: Data L: Instruction code
5	R/W	H/L Reset signal
6	E1	Chip enable signal
7	E2	Chip enable signa
8	NC	
9 to 16	DB0 to DB7	H/L Data bus line