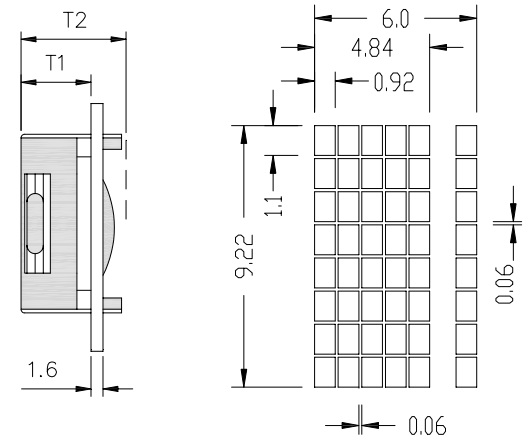
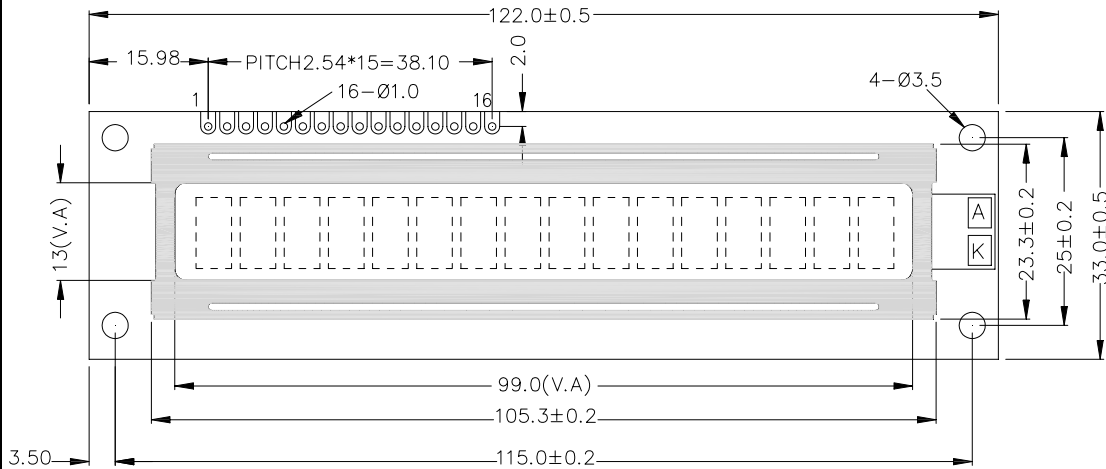


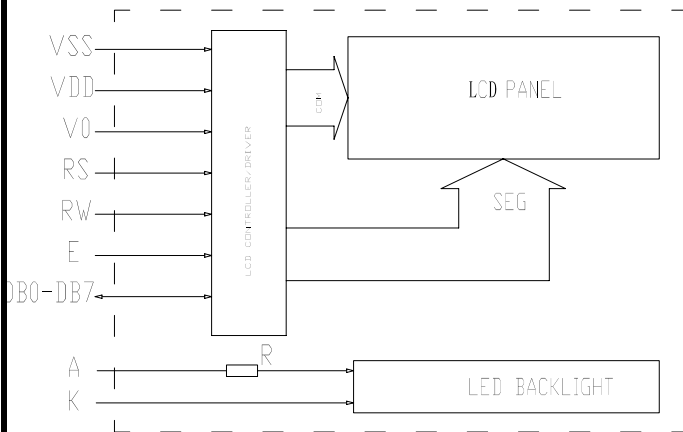
Pin	Symbol
1	VSS
2	VDD
3	V0
4	RS
5	RW
6	E
7~10	DB0-DB3
11~14	DB4-DB7
15	A
16	K



### Display character address code

Display position	01	02	---	08	09	---	15	16
DDRAM address	00	01	---	07H	40	---	46	47H

### Block diagram



### Feature

- 16 character \* 1 lines display
- Built-in controller(S6A0069 or compliant)
- with 4-bit or 8-bit parallel interface
- 1/16 Duty cycle, 1/5 Bias.
- Display Mode & Backlight Variations.
- ROHS Compliant

### Mechanical thickness

LCD module	T1	T2	Unit
Without or EL	4.5	9.5	mm
Edge backlight	7.0	11.0	mm
Bottom backlight	8.5	13.5	mm

### Mechanical data

Item	Standard	Unit
Module size	122.0X33.0	mm
View area	99.0X13.0	mm
Dot size	0.92X1.10	mm
Character size	4.84X9.22	mm

### Maximum Absolute Power Ratings

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Input voltage	V <sub>DD</sub>	-0.3	---	5.5	V
Power supply	V <sub>in</sub>	-0.3	---	V <sub>DD</sub>	

### Electronical characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Operating voltage	V <sub>DD</sub>	V <sub>DD</sub> =5.0V	4.5	---	5.5	V
		V <sub>DD</sub> =3.3V	2.7	3.3	5.5	
Operating current	I <sub>DD</sub>	V <sub>DD</sub> =5.0V	---	1.5	---	mA
Recommended LCD driving voltage for normal temp module	V <sub>LCD</sub>	T <sub>A</sub> =+25	---	4.3	---	V
		T <sub>A</sub> =0	---	4.5	---	
		T <sub>A</sub> =-20	---	4.8	---	
Backlight voltage	V <sub>LED</sub>	Y-G	---	4.2	---	V
Backlight current	I <sub>LED</sub>	V <sub>LED</sub> =4.2V	---	180	---	mA
Operating temperature	T <sub>o</sub>	---	-20	---	70	
Storage temperature	T <sub>s</sub>	---	-30	---	80	