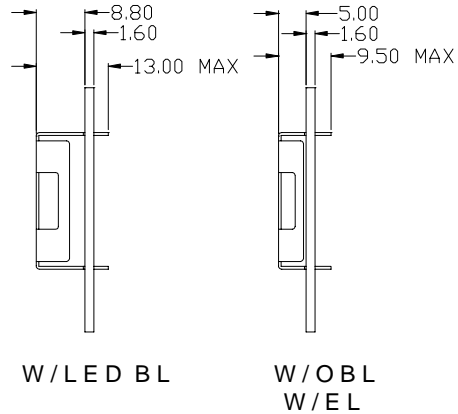
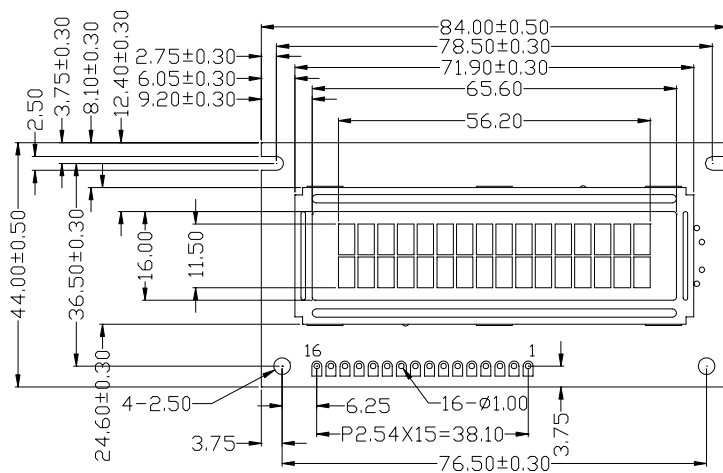
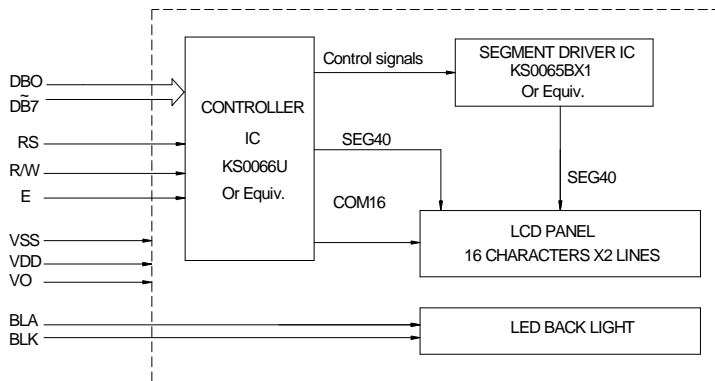


### OUTLINE DIMENSION

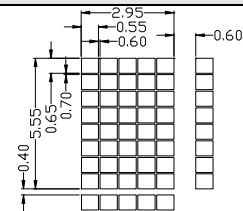


Tolerance: ± 0.20mm, unless otherwise specified.

### BLOCK DIAGRAM



### DISPLAY PATTERN



### MECHANICAL SPECIFICATION

Item	Dimensions(W)X(H)	Unit
Overall Size	84.0x44.0	MM
View Area	65.6x16.0	MM
Character	2.95x5.55	MM
Dot Size	0.55x0.65	MM
Dot Pitch	0.60x0.70	MM

### PIN ASSIGNMENT

Pin no	Symbol	Function
1	BLK	Back light cathode
2	BLA	Back light anode
3	VSS	Power Supply(GND)
4	VDD	Power Supply(+)
5	VO	Contrast Adjust
6	RS	Command data input
7	R/W	Data read / write
8	E	Enable signal
9-16	DB0~DB7	Data bus line

### ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min	Max	Unit
Supply for logic voltage	VDD	25	-0.3	7.0	V
LCD driving supply voltage	VDD-VO	25	-0.3	VDD+0.3	V
Input voltage	VI	25	-0.3	VDD+0.3	V

### ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typical	Max	Unit
Supply voltage for logic	VDD	---	4.5	5.0	5.5	V
Supply current for logic	IDD	---	---	1.38	3	mA
Operation voltage for LCD	VDD-VO	0	4.7	5.0	5.3	V
		25	4.5	4.8	5.1	V
		50	4.4	4.7	5.0	V
Input voltage "H" level	VIH	---	2.2	---	VDD	V
Input voltage "L" level	VIL	---	-0.3	---	0.6	V
Supply voltage for back light	VF	---	---	4.2	4.6	V
Supply current for back light	IF	VF=4.2V	---	110	220	mA

### REMARKS:

- LCD options: STN, TN, FSTN.
- Back light Options: LED\EL Back light feature.