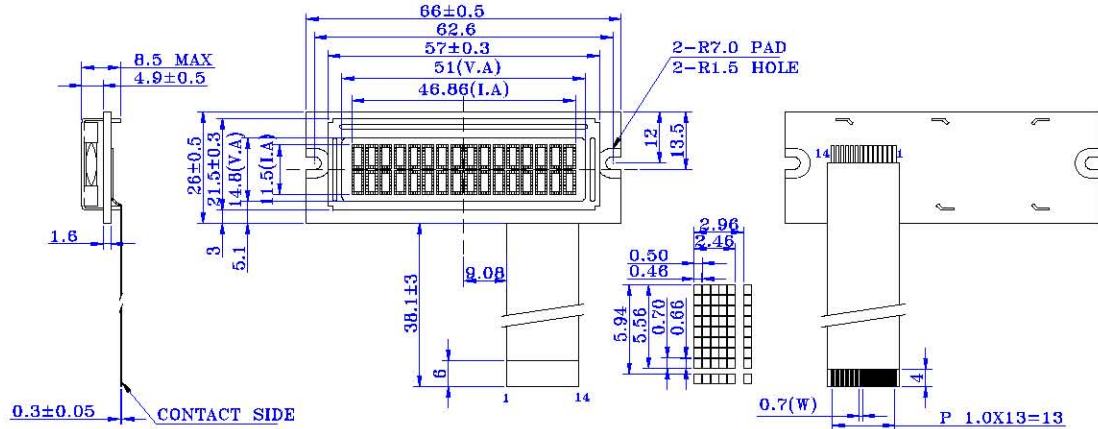
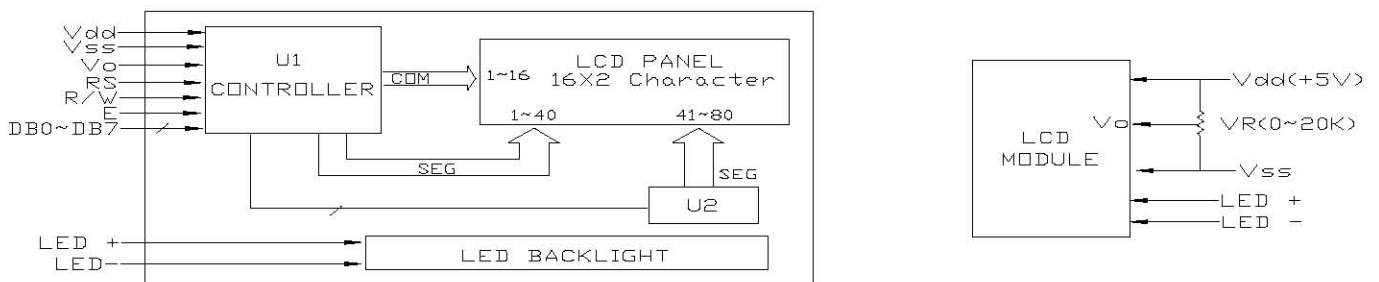


## ◆ OUTLINE DIMENSION



## ◆ BLOCK DIAGRAM & POWER SUPPLY



## ◆ MECHANICAL SPEC. & FEATURES

Item	Dimension(mm)	Features	
Module Size(W×H×T)	66.0×26.0×8.5	LC Fluid	TN, STN (Yellow-green, Gray, Blue), FSTN
Viewing Area(W×H)	51.2×14.8	Polarizer	Reflective, Transflective, Transmissive
Dot Size(W×H)	0.46×0.66	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W×H)	0.50×0.70	Display Type	Positive or Negative
Character Size(W×H)	2.46×5.56	Backlight	LED (Optional)
Character Pitch(W×H)	2.96 × 5.94	Operating Temp.	0°C~50°C or -20°C~70°C
		Controller	S6A0069 or Equivalent

## ◆ INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	Vo	Power supply for LCD	13	R/W	Read/Write selection (H: R, L: W)
2	Vdd	Power supply for logic	14	RS	Register selection (H:Data, L:Instruction)
3	Vss	Ground for logic		A	BKL +
4~11	DB0~DB7	Data bus lines		K	BKL -
12	E	Enable signal			

## ◆ ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25°C	---	5.0	---	V
Operating Voltage for LCD	Vled	Ta=25°C	---	4.5	---	V
Supply Current	Idd	Ta=25°C, Vdd=5.0V	---	2.0	3.0	mA
Supply Voltage for LED	Vf	Ta=25°C, R=6.8Ω	---	4.2	---	V
Supply Current for LED	If	Ta=25°C, Vf=4.2V	---	110	---	mA