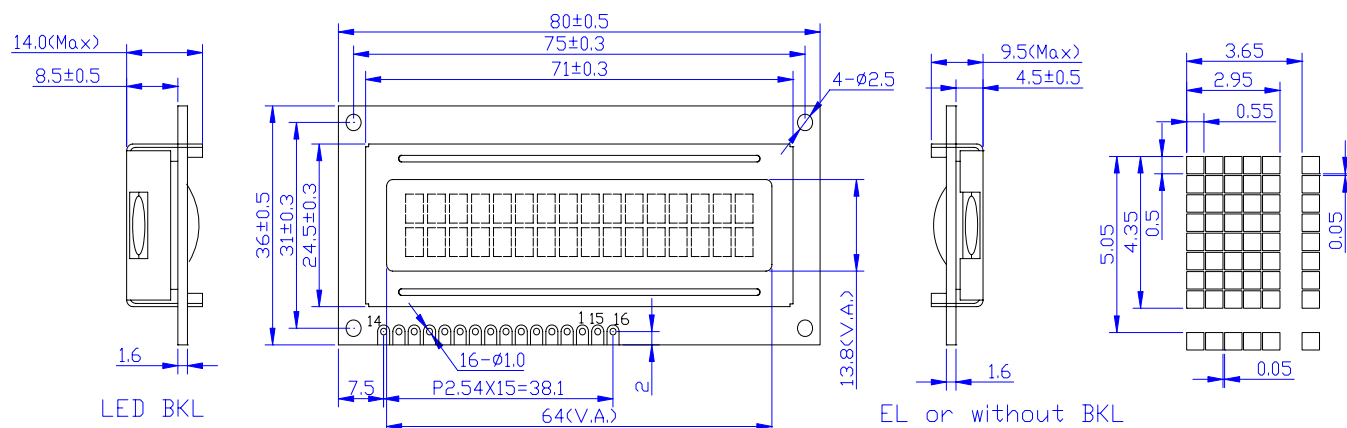
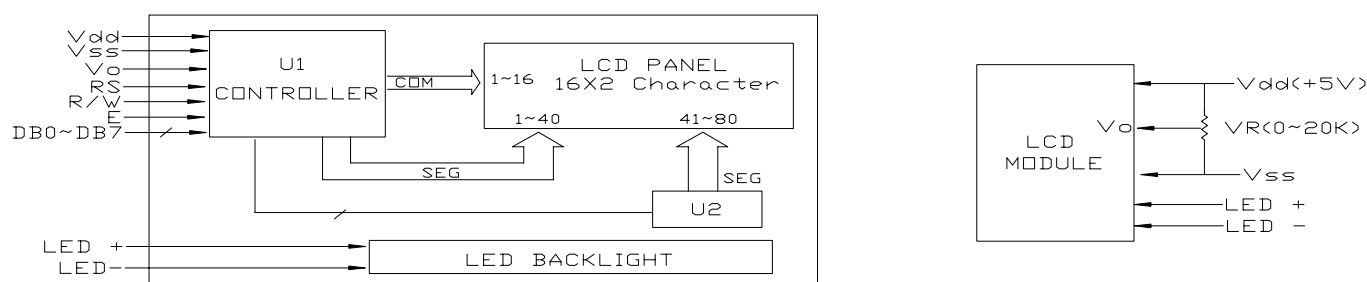


## ◆OUTLINE DIMENSION



## ◆BLOCK DIAGRAM & POWER SUPPLY



## ◆MECHANICAL SPEC. & FEATURES

Item	Dimension(mm)	Features	
Module Size(W×H×T)	80.0×36.0×9.5/14	LC Fluid	TN, STN (Yellow-green, Gray, Blue), FSTN
Viewing Area(W×H)	64.0×13.8	Polarizer	Reflective, Transflective, Transmissive
Dot Size(W×H)	0.55×0.50	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W×H)	0.60×0.55	Display Type	Positive or Negative
Character Size(W×H)	2.95×4.35	Backlight	LED (Optional)
Character Pitch(W×H)	3.65×5.05	Operating Temp.	0℃~50℃ or -20℃~70℃
		Controller	S6A0069 or Equivalent

## ◆INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	V <sub>ss</sub>	Ground for logic	6	E	Enable signal
2	V <sub>dd</sub>	Power supply for logic	7~14	DB0~DB7	Data bus lines
3	V <sub>o</sub>	Power supply for LCD	15	A	BKL +
4	RS	Register selection (H:Data, L:Instruction)	16	K	BKL -
5	R/W	Read/Write selection (H: R, L: W)			

## ◆ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	V <sub>dd</sub>	Ta=25℃	---	5.0	---	V
Operating Voltage for LCD	V <sub>led</sub>	Ta=25℃	---	4.5	---	V
Supply Current	I <sub>dd</sub>	Ta=25℃, V <sub>dd</sub> =5.0V	---	2.0	3.0	mA
Supply Voltage for LED	V <sub>f</sub>	Ta=25℃, R=6.8Ω	---	4.2	---	V
Supply Current for LED	I <sub>f</sub>	Ta=25℃, V <sub>f</sub> =4.2V	---	110	---	mA