

**2x16 LCD Module**

**DATA SHEET**

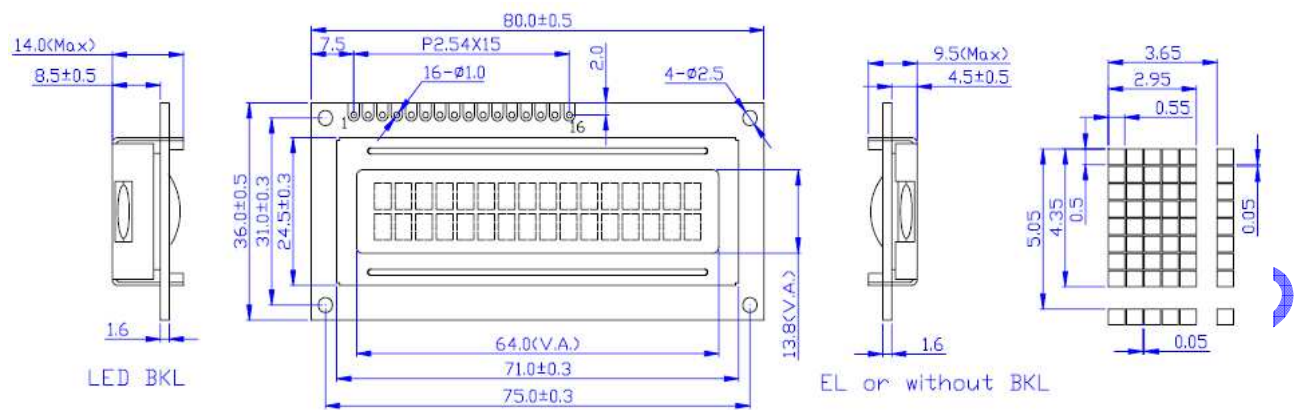
**RoHS**  
Leadfree Soldering  
VCS



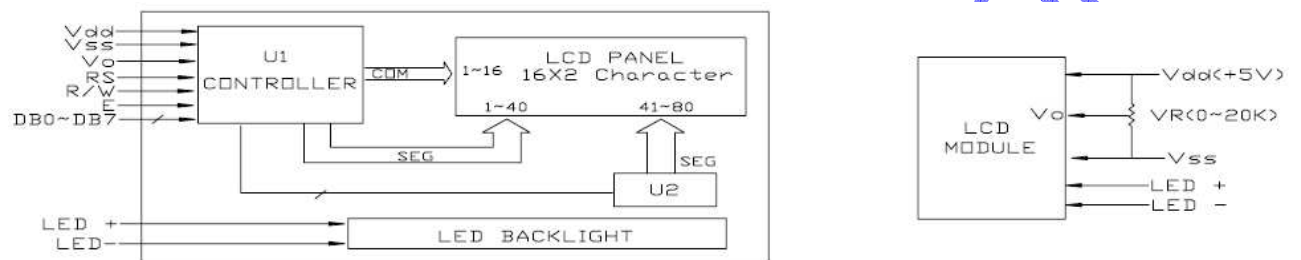
**Specifications:**

Display Format	: 16 characters (W) x 2 lines (H)
General Dimensions	: 80.0 mm (W) x 36.0 mm (H) x 9.5 mm (T)
Character Size	: 2.95 mm (W) x 4.35 mm (H)
Character Pitch	: 3.65 mm (W) x 5.05 mm (H)
Viewing Area	: 64.0 mm (W) x 13.8 mm (H)
Dot Size	: 0.55 mm (W) x 0.50 mm (H)
Dot Pitch	: 0.60 mm (W) x 0.55 mm (H)
Display Type	: Positive or Negative
LC Fluid	: STN Yellow-Green
Backlight LED	: Optional
Polarizer Mode	: Reflective
View Angle	: 6 o'clock or 12 o'clock
Controller	: S6A0069 or Equivalent
Temperature Range	: 0°C to 50°C (Operating); -20°C to 70°C (Storage)

**Diagrams:**



Outlined Dimension



Block Diagram

## Pin Connections:

Pin Number	Symbol	Function
1	Vss	Ground for Logic
2	Vdd	Power Supply for Logic
3	Vo	Power Supply for LCD
4	RS	Register Selection (H: Data, L: Instruction)
5	R/W	Read/Write Selection (H: Read, L: Write)
6	E	Enable Signal
7-14	DB0 - DB7	Data Bus Lines
15	A	BKL +
16	K	BKL -

## Electrical Characteristics:

Item	Symbol	Test Condition	Minimum	Typical	Maximum
Operating Voltage (V)	Vdd	Ta=25 °C	-	5.0	-
Operating Voltage for LCD (V)	Vlcd	Ta=25 °C	-	4.5	-
Current Supply (mA)	Idd	Ta=25 °C, Vdd=5.0V	-	2.0	3.0
Voltage Supply for LED (V)	Vf	Ta=25 °C, R=6.8Ω	-	4.2	-
Current Supply for LED (mA)	If	Ta=25 °C, Vf=4.2V	-	110	-