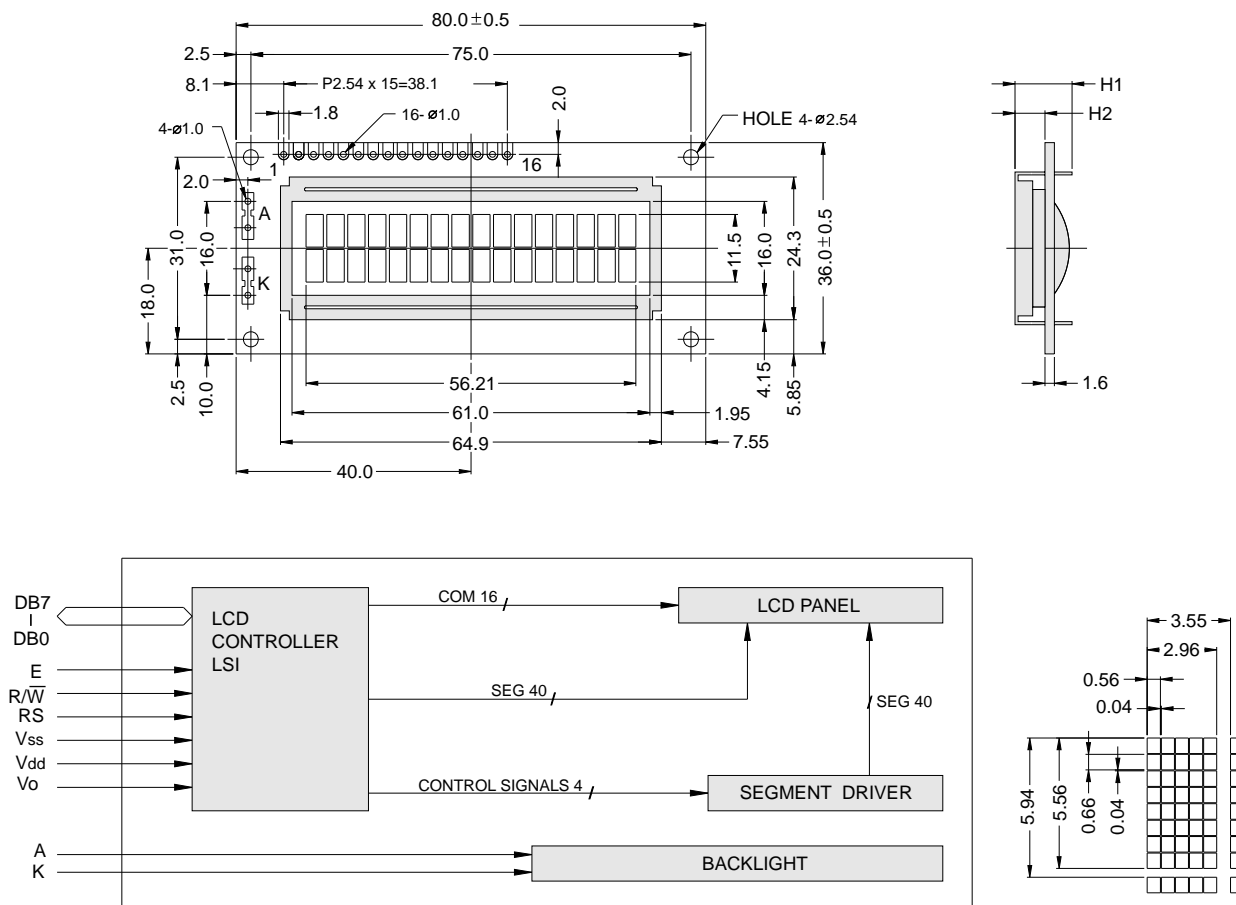




**OUTLINE DIMENSION & BLOCK DIAGRAM**



The tolerance unless classified  $\pm 0.3\text{mm}$

**MECHANICAL SPECIFICATION**

Overall Size	80.0 x 36.0	Module	H2 / H1
View Area	61.0 x 16.0	W / O B/L	5.1 / 9.7
Dot Size	0.56 x 0.66	EL B/L	5.1 / 9.7
Dot Pitch	0.60 x 0.70	LED B/L	9.1 / 13.7

**PIN ASSIGNMENT**

Pin no.	Symbol	Function
1	Vss	Power supply(GND)
2	Vdd	Power supply(+)
3	Vo	Contrast Adjust
4	RS	Register select signal
5	R/W	Data read / write
6	E	Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	A	Power supply for LED B/L (+)
16	K	Power supply for LED B/L (-)

**ABSOLUTE MAXIMUM RATING**

Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	Vdd-Vss	25°C	-0.3	7	V
LCD driving supply voltage	Vdd-Vee	25°C	-0.3	13	V
Input voltage	Vin	25°C	-0.3	Vdd+0.3	V

**ELECTRICAL CHARACTERISTICS**

Item	Symbol	Condition	Min.	Typical	Max.	Units
Power supply voltage	Vdd-Vss	25°C	2.7	—	5.5	V
LCD operation voltage	Vop	Top	N	W	N	W
		-20°C	—	4.7	—	5.3
		0°C	4.6	—	4.9	—
		25°C	4.2	4.7	4.5	5
		50°C	3.9	—	4.2	—
LCM current consumption (No B/L)	Idd	70°C	—	4.5	—	5.1
		Vdd=5V	—	2	3	mA
		LED/edge	VB/L=4.2V	—	20	—
Backlight current consumption	LED/array	VB/L=4.2V	—	90	—	mA

**REMARK**

LCD option: STN, TN, FSTN

Backlight Option: LED, EL Backlight feature, other Specs not available on catalog is under request.

