

SGL- VCM1602A

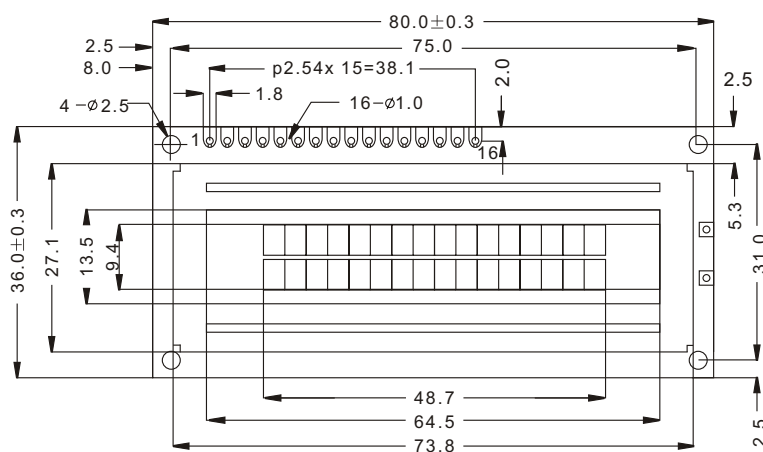
*Display Format
16characters X 2lines

*Display Fonts
*5 X 8dots

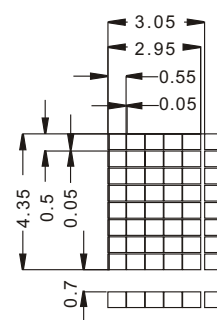
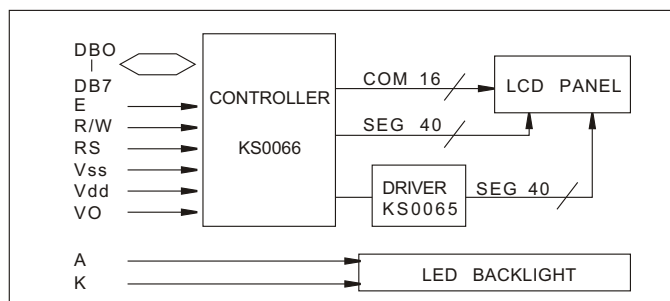
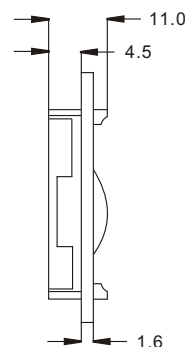
*Driving Method
1/16duty, 1/5bias

*LCD Type
TN, Yellow/gray STN

*Back Light
LED/4.2VDC
EL/100VAC, 400Hz



MAX:15.0mm for LED BACK LIGHT



■Electro-Optical Characteristics

(Vdd = 5V±10%, GND = 0V, Ta = -20°C to +75°C)

Item	Symbol	Condition	Standard Value			Unit
			Min	Typ.	Max.	
Power Supply for Logic	Vdd-Vss	-	4.5	5.0	5.5	V
Input High Voltage	ViH	-	2.2	-	Vdd	V
Input Low Voltage	ViL	-	-0.3	-	0.6	V
Output high Voltage	VoH	IoH=0.2mA	2.4	-	-	V
Output Low Voltage	VoL	IoL=1.2mA	-	-	0.4	V
Current Consumption for Logic&LC Driving	Id*	Vdd=5.0V		2.0	3.0	mA
Operating Voltage for LCD	Vdd-Vo	Top=25°C	-	4.5	-	V
Response Time	Rise Time	Tr	Top=25°C	-	200	ms
	Decay Time	Td	φ=0° θ=0°	-	250	
Viewing Angle	φ2-φ1	K≥2.0	60	-	-	Deg
Contrast Ratio	K	φ=0° θ=0°	4	-	-	-
Frame Frequency	fFLM		-	82.0	-	Hz

*: when all character font are displayed as "5"

■I/O Connection

Pin No.	Symbol	Function
1	Vss	Signal Ground
2	Vdd	Power Supply for Logic
3	V0	Power Supply for LCD
4	RS	Register Selection
5	R/W	Read and Write
6	E	Enable Signal
7	DB0	Data Line
8	DB1	Data Line
9	DB2	Data Line
10	DB3	Data Line
11	DB4	Data Line
12	DB5	Data Line
13	DB6	Data Line
14	DB7	Data Line
15	LED+	Power Supply
16	LED-	Power Supply