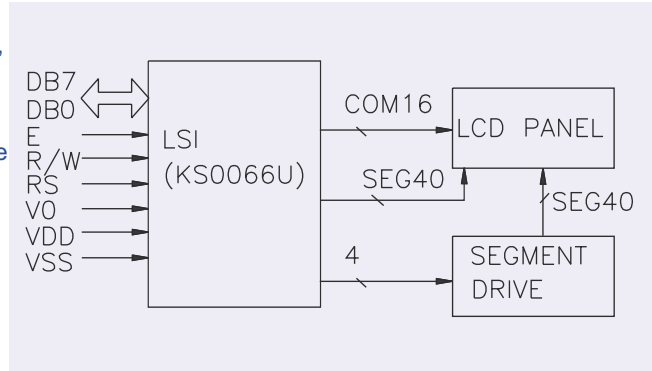# WC-1602A0

FEATURES

- **Display Mode :** Reflective / Transflective / Transmissive, Positive / Negative, STN, Normal / Extend Temp.
- **Color** : Display Dot : Dark blue
  Background : Yellow-Green / Gray / Blue
- **Display Format** : 16 Characters x 2 Lines
- **Interface Input Data** : 4 bit or 8 bit interface available
- **Character Font** : 5 x 7 Dots with cursor
- **Driving Method** : 1/16 Duty
- **Viewing Direction** : 6 O'clock
- **Back Light** : LED / EL

BLOCK DIAGRAM

ELECTRO-OPTICAL CHARACTERISTICS

Item		Symbol	Condition	Standard Value Min.	Typ.	Max.	Unit
Power Supply for Logic		Vdd - Vss	—	2.7	5.0	5.5	V
Input High Voltage		VIH	—	2.2	—	Vdd	V
Input Low Voltage		VIL	—	0	—	0.6	V
Output High Voltage		VOH	IoH = 0.2mA	2.2	—	Vdd	V
Output Low Voltage		VOL	IoL = 1.2mA	0	—	0.6	V
Current Consumption for Logic & LCD Driving		Idd	Vdd = 5.0V		—	3.0	mA
Operating Voltage for LCD		Vdd - Vo	Top = 25^{0}C	0	4.4	10	V
Response Time	Rise Time	Tr	$\Phi = 0^0$, $\Theta = 0^0$	—	200	250	ms
	Decay Time	Tf		—	250	300	
Viewing Angle		$\Phi 2 - \Phi 1$	K $\geq$ 2.0	60	—	—	Deg
Contrast Ratio		K	$\Theta = 0^0$ $\Phi = 20^0$	2	—	—	—
Frame Frequency		f FLM	—	—	64.0	—	Hz

INTERFACE PIN

1 Vss	2 Vdd	3 Vo	4 Rs	5 R/w	6 E	7 D0	8 D1	9 D2	10 D3	11 D4	12 D5	13 D6	14 D7	15 LED(+)	16 LED(-)

DIMENSIONAL DRAWING

DETAIL "A"