



# SD1602Q( 16 CHARACTERS x 2 LINES )

## FEATURES

- 5 x 7 DOTS WITH CURSOR
- BUILT-IN CONTROLLER (ST7066 OR EQUIVALENT)
- 3.3V / 5.0V POWER SUPPLY
- 1/16 DUTY CYCLE
- 8-BIT PARALLEL INTERFACE

## MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size ( W x H x T )	72.0 x 36.0 x 8.8 ( 12.7 LED )	mm
Viewing Area ( W x H )	65.0 x 16.0	mm
Character Size ( W x H )	2.96 x 5.56	mm
Character Pitch ( W x H )	3.55 x 5.94	mm
Dot Size ( W x H )	0.56 x 0.66	mm
Dot Pitch ( W x H )	0.60 x 0.70	mm

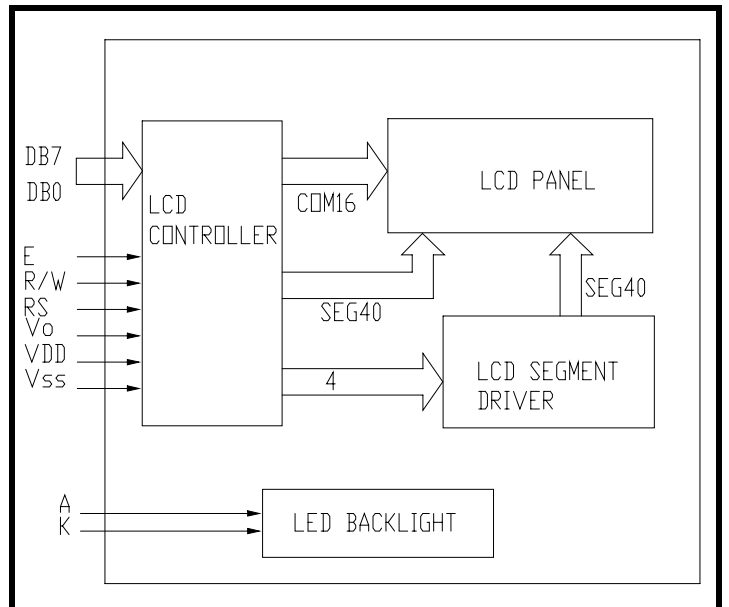
## INTERFACE PIN CONNECTIONS

NO.	SYMBOL	FUNCTION	NO.	SYMBOL	FUNCTION
1	VSS	Supply Ground	9	DB2	Data Bit 2
2	VDD	Supply Voltage	10	DB3	Data Bit 3
3	Vo	Contrast Adj.	11	DB4	Data Bit 4
4	RS	Register Select	12	DB5	Data Bit 5
5	R/W	Read/Write	13	DB6	Data Bit 6
6	E	Enable Signal	14	DB7	Data Bit 7
7	DB0	Data Bit 0	15	A	LED Power
8	DB1	Data Bit 1	16	K	LED Power

## ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
LCD Operating Voltage	VDD-Vo	T=0	-	4.8	-	V
		T=25	-	4.5	-	V
		T=50	-	4.2	-	V
Supply Voltage	VDD-VSS	-	2.7	5	5.5	V
Supply Current	IDD	-	-	3.2	6	mA
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub> V
	"LOW" Level	V <sub>IL</sub>	-	0	-	0.6 V
Output Voltage	"HIGH" Level	V <sub>OH</sub>	-	2.4	-	V
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4 V

## BLOCK DIAGRAM



## EXTERNAL DIMENSIONS

