

# SD1602E ( 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)	66.7 x 23.3 x 5.2	mm
Viewing Area (W x H)	61.0 x 15.9	mm
Character Size (W x H)	2.95 x 5.55	mm
Character Pitch (W x H)	3.55 x 6.3	mm
Dot Size (W x H)	0.55 x 0.65	mm
Dot Pitch (W x H)	0.60 x 0.70	mm

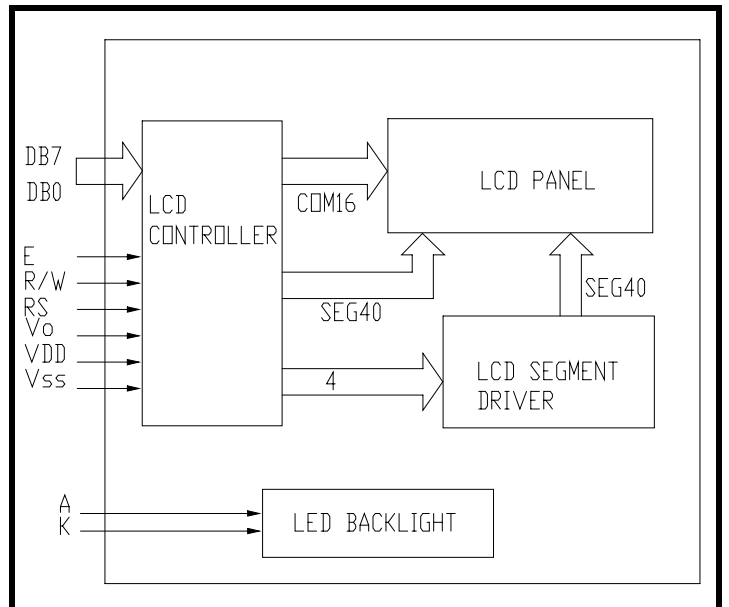
## INTERFACE PIN CONNECTIONS

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

## 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	VIH	-	2.2	-	VDD	V
	"LOW" Level	UIL	-	0	-	0.6	V
Output Voltage	"HIGH" Level	VOH	-	2.4	-	-	V
	"LOW" Level	VOL	-	-	-	0.4	V

## BLOCK DIAGRAM



## EXTERNAL DIMENSIONS

