



- ◆ 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

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	87.0 x 60.0 x 8.8 (12.7 LED)	mm
Viewing Area (W x H)	62.0 x 25.6	mm
Character Size (W x H)	2.95 x 4.75	mm
Character Pitch (W x H)	3.55 x 5.35	mm
Dot Size (W x H)	0.55 x 0.55	mm
Dot Pitch (W x H)	0.60 x 0.60	mm

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

[illegible]

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
LCD Operating Voltage		V _{DD-V0}	T=0℃	-	4.8	-	V
			T=25℃	-	4.5	-	V
			T=50℃	-	4.2	-	V
Supply Voltage		V _{DD-VSS}	-	2.7	5	5.5	V
Supply Current		I _{DD}	-	-	3.2	6	mA
Input Voltage	"HIGH" Level	V _{HI}	-	2.2	-	V _{DD}	V
	"LOW" Level	V _{IL}	-	0	-	0.6	V
Output Voltage	"HIGH" Level	V _{OH}	-	2.4	-	-	V
	"LOW" Level	V _{OL}	-	-	-	0.4	V

The block diagram illustrates the internal components and connections of the LCD module. On the left, external signals are connected to the LCD CONTROLLER: DB7 and DB0 (data bus), E (enable), R/W (read/write), RS (register select), VEE (negative supply), VDD (positive supply), and VSS (ground). The LCD CONTROLLER is connected to the LCD PANEL via COM16 and to the LCD SEGMENT DRIVER via SEG40 and a 4-bit bus. The LCD SEGMENT DRIVER is connected to the LCD PANEL via SEG120. At the bottom, the LED BACKLIGHT is connected to the module via A and K lines.