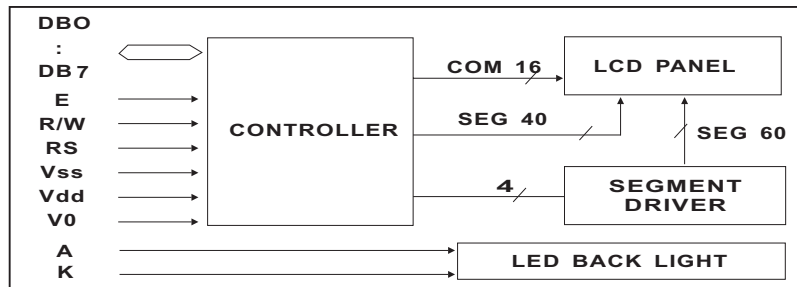


ITEM	T1	T2
LED backlight	9.3	13.5
EL / without backlight	4.6	9.5



**FEATURE**

1. 5X8 dots with cursor
2. Built-in controller (SPLC780D or Equivalent)
3. +5V power supply (Also available for +3.0V)
4. 1/16 duty cycle
5. BKL to be driven by pin1, pin2, or pin15, pin16 or A, K
6. N.V. Optional

**ABSOLUTE MAXIMUM RATINGS**

ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY (LOGIC)	Vdd	-0.3	7.0	V
POWER SUPPLY (LCD)	V0	Vdd-13.5	Vdd+0.3	V
INPUT VOLTAGE	Vin	-0.3	Vdd+0.3	V

**PIN ASSIGNMENT**

PIN	SYMBOL	FUNCTION
1	Vss	GND
2	Vdd	Power Supply
3	V0	Contrast Adjust
4	RS	Register Select Signal
5	R/W	Data Read/Write
6	E	Enable Signal
7-14	DB0-DB7	Data Bus Line
15(A)	LED+	Power supply for BKL(+)
16(K)	LED-	Power supply for BKL(-)

**MECHANICAL SPECIFICATIONS**

CHARACTER NUMBER	20W X 2H	—
OVERALL SIZE	116.00W X 37.00H	mm
VIEWING AREA	83.00W X 18.60H	mm
HOLE - HOLE	108.00W X 29.00H	mm
CHARACTER SIZE	3.20W X 5.95H	mm
CHARACTER PITCH	0.50W X 0.40H	mm
DOT SIZE	0.60W X 0.65H	mm
DOT PITCH	0.05W X 0.05H	mm

**ELECTRONICAL CHARACTERISTICS**

ITEM	SYMBOL	CONDITION	STANDARD			UNIT
			MIN	TYP	MAX	
Input voltage	Vdd	+5V	4.7	5.0	5.5	V
		+3.3V	2.7	3.0	3.3	V
Supply current	Idd	Vdd=5V	---	2.5	4.0	mA
Recommended LCD driving voltage for normal temp version module	Vdd-V0	0 °C	4.7	5.0	5.5	V
		25 °C	4.3	4.5	4.7	
		50 °C	4.1	4.3	4.5	
LED forward voltage	V <sub>F</sub>	25 °C	---	4.2	4.6	V
LED forward current	I <sub>F</sub>	25 °C	---	140	---	mA
EL power supply current	EL	AC 400Hz V <sub>EL</sub> =110V	----	---	---	mA

**DISPLAY CHARACTER ADDRESS CODE**

Display position	1 2 3 4 5 -- -- -- -- --	18 19 20
DDRAM address	00 01 02 -- -- -- -- --	11 12 13
DDRAM address	40 41 42 -- -- -- -- --	51 52 53