

2040-10 20 chars x 4 lines STN

Reflective/EL/LED Backlight

■ ABSOLUTELY MAXIMUM RATINGS

Item	Symbol	Standard Value			Unit
		Min	Typ.	Max.	
Supply Voltage for Logic	$V_{DD}-V_{SS}$	0	--	7.0	V
Supply Voltage for LCD Drive	$V_{DD}-V_{EE}$	1.5	--	13.5	V
Input Voltage	V_I	V_{SS}	--	V_{DD}	V
Operation Temperature	T_{op}	0	--	50	°C
Storage Temperature	T_{stg}	-20	--	70	°C

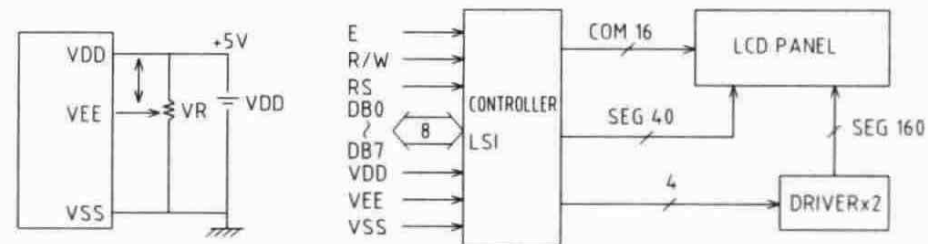
■ PIN FUNCTIONS

No.	Symbol	Function	No.	Symbol	Function
1	V_{SS}	GND, 0V	8	DB1	Data Bus
2	V_{DD}	+5V	9	DB2	--
3	V_{EE}	for LCD Drive	10	DB3	--
4	RS	Function Select	11	DB4	--
5	R/W	Read/Write	12	DB5	--
6	E	Enable Signal	13	DB6	--
7	DB0	Data Bus Line	14	DB7	--

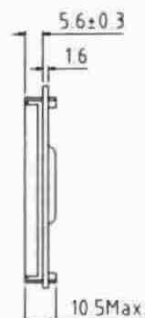
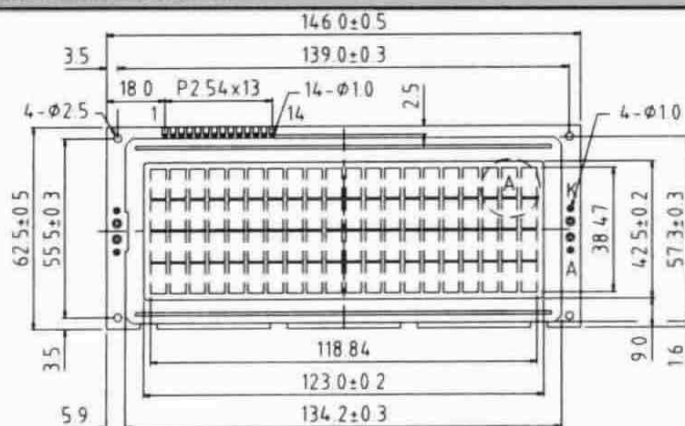
■ ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Standard Value			Unit
			Min.	Typ.	Max.	
Input "High" Voltage	V_{IH}	--	$0.7 \times V_{DD}$	--	V_{DD}	V
Input "Low" Voltage	V_{IL}	--	V_{SS}	--	$0.3 \times V_{DD}$	V
Output "High" Voltage	V_{OH}	$I_{OH}=0.2mA$	2.2	--	--	V
Output "Low" Voltage	V_{OL}	$I_{OL}=1.2mA$	--	--	0.4	V
Supply Current	I_{DD}	$V_{DD}=5.0V$	--	2.5	4.0	mA

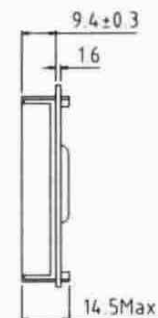
■ BLOCK DIAGRAM



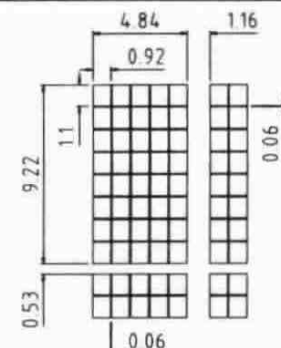
■ DIMENSION OUTLINE



REF, EL, B/L



LED/B/L



A BLOCK