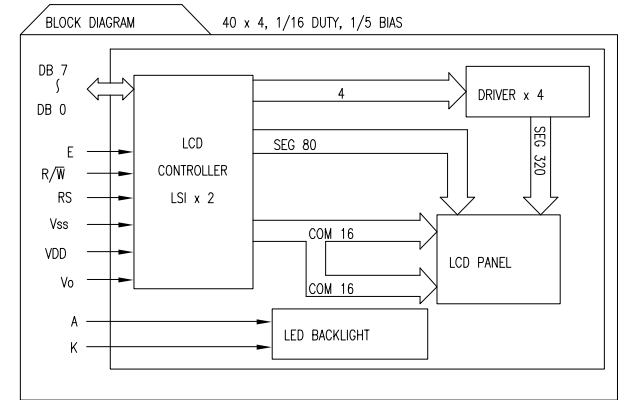
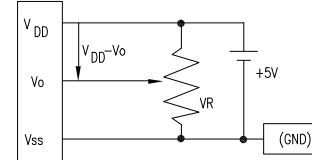


DATE: 06.01.10	DRAWN BY: JH
PAGE: 1 OF 2	CHKD BY: BC
SCALE: N/A	APRVD BY: KF
UNIT: mm [INCH]	(Pb)

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1~8	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.	
9	E1	H,H→L	ENABLE 1	
10	R/Ṡ	H/L	H: DATA READ (MODULE→MPU) L: DATA WRITE (MODULE←MPU)	
11	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
12	V _O	—	POWER SUPPLY	FOR LCD DRIVE
13	V _{SS}	—		GND (0V)
14	V _{DD}	—		5V
15	E2	H,H→L	ENABLE 2	
16	—	—	NO CONNECTION	
	A	—	ANODE FOR BACKLIGHT	
	K	—	CATHODE FOR BACKLIGHT	

V_{DD}-V_O: LCD DRIVING VOLTAGEVR: 10K Ω ~20K Ω 

ELECTRICAL CHARACTERISTICS		V _{DD} =4.7V to 5.3V, T _A =25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	—	4.0	10.0	mA
INPUT VOLTAGE	HIGH	V _{IH}	—	2.2	—	V _{DD}
	LOW	V _{IL}	—	0	—	0.6
OUTPUT VOLTAGE	HIGH	V _{OH}	—	2.4	—	V
	LOW	V _{OL}	—	—	—	0.4
LED BACKLIGHT	VOLTAGE	V _f	—	—	4.2	4.6
	CURRENT	I _f	—	—	500	—
	POWER CONSUMPTION	PD	—	—	2100	—
	LUMINOUS	L	I _f =500mA	70	—	—
	COLOR	—	—	—	—	—

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	—	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	LCM-H	-20	70	°C
STORAGE TEMPERATURE	T _{stg}	LCM-H	-30	80	°C

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION