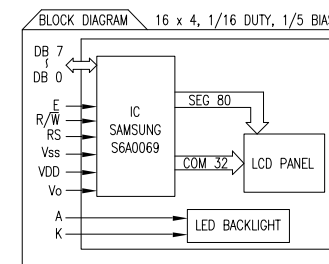
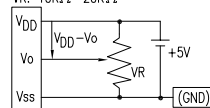


DATE:	04.01.09	DRAWN BY:	JN
PAGE:	1 OF 2	CHKD BY:	KF
SCALE:	N/A	APRVD BY:	YA
UNIT:	mm [INCH]		(Pb)

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	—	POWER SUPPLY	GND (0V)
2	V _{DD}	—		5V
3	V _O	—		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/ $\bar{W}$	H/L	H: DATA READ (MODULE→MPU) L: DATA WRITE (MODULE←MPU)	
6	E	H,H→L	ENABLE	
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE.	
15	A	—	ANODE	
16	K	—	CATHODE	



V_{DD}—V_O: LCD DRIVING VOLTAGE
VR: 10K Ω —20K Ω



ELECTRICAL CHARACTERISTICS		① 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}	—	MIN.	TYP. MAX.	
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	—	2.0 3.0	mA
INPUT VOLTAGE	HIGH	V _{IH}	—	2.2 —	4.7 V
	LOW	V _{IL}	—	0 —	0.6 V
OUTPUT VOLTAGE	HIGH	V _{OH}	—	2.4 —	V
	LOW	V _{OL}	—	—	0.4 V
*LED BACKLIGHT	VOLTAGE	V _f	I _f =260mA	—	4.2 4.5 V
	CURRENT	I _f	—	—	260 400 mA
	POWER CONSUMPTION	P _D	—	—	1092 — mW
	LUMINOUS	L	I _f =260mA	70 —	— cd/m ²
	COLOR	—	—	—	— nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS		①			
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} —V _{SS}	T _a =25°C	MIN	MAX	
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	85	°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