



### FEATURE

1. 5 x 8 dots with cursor
2. Display format: 20 characters x 2 lines
3. LCD type: STN
4. LCD controller: S6A0069
5. LCD colour: Yellow-Green

### MECHANICAL SPECIFICATIONS

CHARACTER NUMBER	20 x 2	---
OVERALL SIZE	180 x 40	mm
VIEWING AREA	149 x 23	mm
DOT SIZE	1.12 x 1.12	mm
DOT PITCH	1.22 x 1.22	mm

### ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN	MAX	UNIT
Power supply(logic)	V <sub>DD</sub>	-0.3	5.5	V
Power supply(lcd)	V <sub>0</sub>	0	4.9	V
Input voltage	V <sub>in</sub>	-0.3	V <sub>DD</sub>	V

### ELECTRONICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD			UNIT
			MIN	TYP	MAX	
Power supply voltage for circuit	V <sub>DD</sub> -V <sub>SS</sub>	-----	4.5	5	5.5	V
Power supply voltage for LCD drive	V <sub>DD</sub> -V <sub>0</sub>	25°C	-----	4.7	-----	V
LCD display duty ratio	DUTY	-----	----	1/16	----	----
LED BACKLIGHT	I <sub>fp</sub>	1 mseo plus 10% Dutg cycle	----	----	----	mA
		Operating voltage	-----	4.1	-----	V
	Forward current	----	----	----	mA	

### Pin Assignment

Pin	Symbol	Description
1	V <sub>SS</sub>	Ground
2	V <sub>DD</sub>	Power supply voltage for LCM(+)
3	V <sub>0</sub>	Contrast Adjust
4	RS	Register select signal
5	R/W	Write Enable Signal
6	E	Enable signal
7-14	DB0-DB7	Data BUS
15	A	Power supply for BL (+)
16	K	Power supply for BL (-)

Display	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Address line1:	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12	13
Address line2:	40	41	42	43	44	45	46	47	48	49	4A	4B	4c	4D	4E	4F	50	51	52	53