



Feature

- 128X64 dots with 8192 chinese character fonts (16x16)
- 128 alpha-numerical fonts (16x8)
- 64X256 bit graphic display RAM
- Strong display control functions:
Vertical scroll, horizontal bit scroll, line reverse etc
- +2.7~+5.5V power supply
- STN; 1/32 duty; LED BKL or EL BKL
- 4bit, 8bit, serial interface

Mechanical Data

Item	Standard	Unit
Module dimension	88.0x44.0	mm
Viewing area	64.0x17.9	mm
Dot size	0.36x0.40	mm
Dot pitch	0.40x0.44	mm

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	-----	5.5	V
Input voltage	VI	-0.3	-----	VDD	

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	5.3	V
Supply current	IDD	VDD=5V	-----	2	4	mA
Recommended LCD riling voltage for normal temp version module	V0-VSS	-20°C	-----	-----	-----	V
		0 °C	-----	-----	-----	
		25°C	4.3	6.5	4.7	
		50°C	-----	-----	-----	
		70°C	-----	-----	-----	
LED forward voltage	VF	25°C	-----	4.2	4.6	V
LED forward current	IF	25°C	-----	120	-----	mA
EL power supply current	I _{EL}	V _{EL} =110V AC 400Hz	-----	-----	-----	mA

PIN NO	Symbol	Fuction
1	VSS □	GND
2	VDD □	+5V
3	V0 □	Constrast adjustment
4	RS	H/L Register select signal
5	R/W □	H/LRead/Write signal
6	E	H/L Enable signal
7-14	DB0-DB7	H/L Data bus line
15	A	LED supply voltage (+)
16	K	LED supply voltage(-)
17	RST	Reset signal
18	VOU	Double voltage output for LCD
19	A	LED supply voltage (+)
20	K	LED supply voltage(-)

Display character address code:

Display position	1	2	3	4	5	6	7
DDRAM address	00	01	02	---	---	---	0FH
DDRAM address	10	11	12	---	---	---	1FH