



LED B/L

REF/EL

Feature

1. 122X32 dots with 8192 chinese character fonts (16x16)
2. 128 alpha-numerical fonts (16x8)
3. 64X256 bit graphic display RAM
4. Strong display control fuctions:
Vertical scroll, horizontal bit scroll, line reverse etc
5. +2.7~+5.5V power supply
4. STN; 1/32 duty; LED BKL or EL BKL
7. 4bit, 8bit, serial interface

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/L Read/Write signal
6	E	H/L Enable signal
7	DB0 □	H/L Data bus line
8	DB1 □	H/L Data bus line
9	DB2 □	H/L Data bus line
10	DB3 □	H/L Data bus line
11	DB4 □	H/L Data bus line
12	DB5 □	H/L Data bus line
13	DB6 □	H/L Data bus line
14	DB7 □	H/L Data bus line
15	A	+4.2V for LED
16	K	Power supply for BKL

Mechanical Data

Item	Standard	Unit
Module dimension	84.0x44.0	mm
Viewing area	64.0x17.9	mm
Dot size	0.40x0.45	mm
Dot pitch	0.44x0.49	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	VDD-V0	-20°C	-----	-----	-----	V
		0 °C	4.7	5.0	5.5	
		25°C	4.3	4.5	4.7	
		50°C	4.1	4.3	4.5	
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

Display character address code:

Display position	1	2	3	4	5	6	7
DDRAM address	00	01	02	---	---	---	07H
DDRAM address	10	11	12	---	---	---	17H