



LED B/L

**Feature**

1. 128X32 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	RST	Reset singnal
16	VOUT	Double voltage outpur for LCD
17	A	+4.2V for LED
18	K	Power supply for BKL

**Mechanical Data**

Item	Standard	Unit
Module dimension	84.0x44.0	mm
Viewing area	64.0x17.9	mm
Dot size	0.36x0.40	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	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 <sub>EL</sub>	V <sub>EL</sub> =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