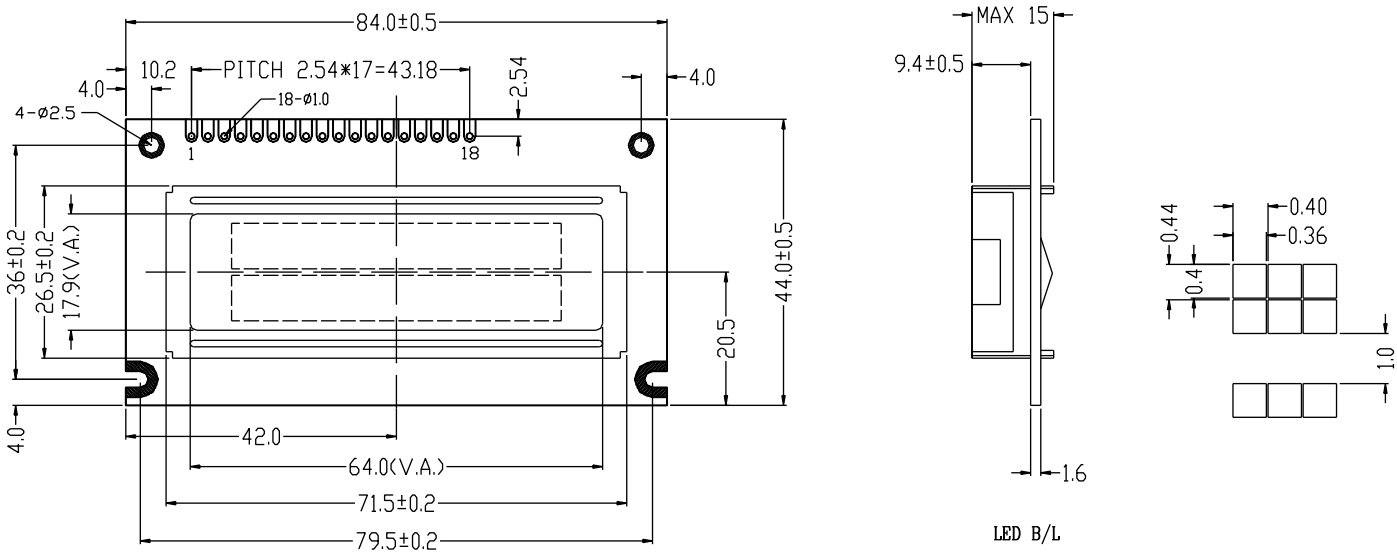
Outline Dimension



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

Interface pin connections

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/Wr ite signal
6	E	H/L Enable signal
7	DB0	H/L Data b us line
8	DB1	H/L Data b us line
9	DB2	H/L Data b us line
10	DB3	H/L Data b us line
11	DB4	H/L Data b us line
12	DB5	H/L Data b us line
13	DB6	H/L Data b us line
14	DB7	H/L Data b us 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	-20ºC	------	------	------	V
		0 ºC	4.7	5.0	5.5	
		25ºC	4.3	4.5	4.7	
		50ºC	4.1	4.3	4.5	
		70ºC	------	-------	------	
LED forward voltage	VF	25ºC	------	4.2	4.6	V
LED forward current	IF	25ºC	------	120	------	mA
EL power supply current	IEL	VEL=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