



**Feature**

- 1. 128x64 dots includes cursor
- 2. Built-in controller(SBN0064,SBN6400 or equivalent)
- 3. +5V power supply(Also available for +3V)
- 4. 1/64duty cycle
- 5. LED can be driven by pin1.pin2.or A and K

**Mechanical Data**

Item	Value	Unit
Outline	93.0 x70.0	mm
Viewing Area	72.0x40.0	mm
Active Area	66.52x33.24	mm
Dot Size	0.48x 0.48	mm
Dot Pitch	0.52x 0.52	mm

**Terminal Function**

Pin No.	Symbol	Function
1	V <sub>SS</sub>	GND
2	V <sub>DD</sub>	Supply voltage for logic
3	V <sub>0</sub>	Contrast Adjustment
4	D/I	Data/instruction
5	R/W	Data read/write
6	E	Enable signal
7-14	DB0-DB7	Data bus line
15	CS1	Chip select for IC1
16	CS2	Chip select for IC2
17	/RST	Reset signal
18	V <sub>ee</sub>	Negative Voltage output
19	A	Backlight LED+
20	K	Backlight LED-

**Electrical Characteristics**

Item	Symbol	Min	Typ	Max
Operating Voltage(V)	V <sub>DD</sub>	4.7	5.0	5.3
Supply Voltage For LCD	V <sub>DD</sub> -V <sub>0</sub>	—	9.2	—
Input High Voltage(V)	V <sub>IH</sub>	0.7	—	V <sub>DD</sub>
Input Low Voltage(V)	V <sub>IL</sub>	V <sub>SS</sub>	—	0.6
Operating Current(mA)	I <sub>DD</sub>	—	2.5	7.5

**Backlight Characteristics**

Item	Symbol	Min	Typ	Max	Unit
Forward Voltage	V <sub>f</sub> (edge)	3.4	3.5	3.6	V
Forward Current	I <sub>f</sub> (edge)	48	64	80	mA
Forward Voltage	V <sub>f</sub> (array)	-	4.2	4.4	V
Forward Current	I <sub>f</sub> (array)	-	330	660	mA

**Absolute Maximum**

Item	Symbo	Min	Max
Operating Voltage(V)	V <sub>dd</sub>	-0.3	5.5
Operating Temperature(°C)	Top	-20	+70
Storage Temperature (°C)	T <sub>st</sub>	-30	+80