



### Feature

1. 8x2 characters includes cursor
2. Built-in controller (ST7066 or Equivalent)
3. +5V power supply (Also available for +3V)
4. 1/16 duty cycle
5. LED can be driven by pin1, pin2, or A and K

### 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	RS	Register select signal
5	R/W	Read / write signal
6	E	Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line

### Mechanical Data

Item	Value	Unit
Outline	58.0 x 32.0	mm
Viewing Area	38.0 x 16.0	mm
Active Area	27.81 x 11.5	mm
Dot Size	0.56 x 0.66	mm
Dot Pitch	0.60 x 0.70	mm

### 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>	—	4.4	—
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>	—	1.2	—

### Backlight Characteristics

Item	Symbol	Min	Typ	Ma	Unit
Forward Voltage	V <sub>f</sub> (edge)	3.4	3.5	3.6	V
Forward Current	I <sub>f</sub> (edge)	14.6	16	25	mA
Forward Voltage	V <sub>f</sub> (array)	-	4.2	4.4	V
Forward Current	I <sub>f</sub> ( array )	-	60	120	mA

### Absolute Maximum

Item	Symbo	Min	Max
Operating Voltage(V)	V <sub>dd</sub>	-0.3	7
Operating Temperature(°C)	Top	-20	+70
Storage Temperature(°C)	T <sub>st</sub>	-30	+80