

16x2 Character

- 5x7 dots with cursor
- 1/16 duty
- Controller (KS0066 or Equivalent) built in
- +5V single supply
- B/L driven by pin1 and 2 or A,K

Pin Assignment

No.	Symbol	Function
1	V _{ss}	Gnd, 0V
2	V _{dd}	3V or +5V
3	V ₀	LCD Drive
4	RS	Function Select
5	R/W	Read/Write
6	E	Enable Signal
7-14	DB0-DB7	Data Bus Line
15	A	4.2V for LED
16	K	Power Supply for LED 0V

Mechanical Data

Item	Standard Value	Unit
Module Size	85.0 x 36.0	mm
Viewing Area	66.0 x 16.0	mm
Dot Size	0.56 x 0.66	mm
Character Size	2.96 x 5.56	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
V-Module	V _{dd} -V _{ss}	-0.3	---	7.0	V
V-Input	V _I	-0.3	---	V _{dd}	V

V_{ss}=0V, V_{dd}=5.0V

Electronical Characteristics

Item	Symbol	Condit.	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	V _{dd}	V _{dd} =+5V V _{dd} =+3V	4.7 2.7	5.0 3.0	5.3 3.3	V
Supply Curent	I _{dd}	V _{dd} =+5V	---	1.2	1.5	mA
Recommended LC Driving Voltage for Standard Temp. Modules	V _{dd} -V ₀	-20 °C	---	---	5.2	V
		0 °C	---	---	4.2	
		25 °C	---	3.8	---	
		50 °C	3.5	---	---	
		70 °C	3.2	---	---	
LED Forward Voltage	V _f	25 °C	---	4.2	4.6	V
LED Forward Current	I _f	25 °C	---	130	195	mA
EL Power Supply Current	I _{EL}	V _{el} =110V AC;400Hz	---	---	5.0	mA

