



PIN Connections

PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vss	Power Supply(GND)
2	Vdd	Power Supply(+5V)
3	Vo	Contrast Adjust
4	RS	Instruction/Data Register Select
5	R/W	Data Read/Write
6	E	Enable Signal
7-14	DB0-DB7	Data Bus Line
15	A	Power Supply for LED B/L (+)
16	K	Power Supply for LED B/L (-)

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Supply Voltage	Vdd	-0.3	7.0	V
LCD Supply Voltage	Vee	Vdd-15.0	0	V
Input Voltage	Vr	-0.3	Vdd+0.3	V
Operating Temperature	Top	0	50	°C
Storage Temperature	Tstg	-20	70	°C

Bottom BackLight Characters
(Ta=25 ° C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage	VLED	—	—	4.2	—	V
LED Forward Consumption Current	If	Ta=25° C Vf=4.1V	—	300	—	mA
LED Allowable Dissipation	Pd	—	—	1260	—	mW

Electrical Characteristics
(Ta=25 ° C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Supply Voltage (Logic)	Vdd-Vss	—	4.5	5.0	5.5	V
Supply Current (Logic)	Idd	VDD=5.0V	—	1.0	2.2	mA
Driving Current (LCD)	Iee	Vee=4.2V	—	1.46	—	mA
Driving Voltage (LCD)	Vdd-Vee	—	4.6	4.8	5.0	V
Input Voltage "H"	Vih	H	0.8Vdd	—	VDD	V
Input Voltage "L"	Vil	L	Vss	—	0.8	V
Output Voltage "H"	VoH	H	2.4	—	—	V
Output Voltage "H"	Vol	L	—	—	0.4	V

