

**MECHANICAL DATA**

Item	Nominal Dimensions	Unit
Module Size(W×H×T)	180.0×40.0×14.6	mm
Viewing Area(W×H)	148.0×23.0	mm
Character Size(W×H)	5.90×9.50	mm
Dot Size(W×H)	1.10×1.10	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min	Type	Max	Unit
Operating Voltage	VDD	4.5	5.0	5.5	V
Operating Current	IDD	1.0	1.3	1.6	mA
LED Voltage	V _{LED}	4.5	5.0	5.5	V
LED Current	I _{LED}	186	289	395	mA
Operating Temp.	Topr	-20	—	+70	°C
Storage Temp.	Tsto	-30	—	+80	°C

ELECTRICAL CHARACTERISTICS

Item	Symbol	Min	Type	Max	Unit
Input Hight Voltage	V _{IH}	2.2	—	VDD	V
Input Low Voltage	V _{IL}	0	—	0.6	V
Output Hight Voltage	V _{OH}	2.4	—	VDD	V
Output Low Voltage	V _{OL}	0	—	0.4	V

PIN CONNECTIONS			
PIN	Symbol	Level	Function
1	K	—	Backlight Power(0V)
2	A	—	Backlight Power(+5V)
3	VSS	—	GND(0V)
4	VDD	—	Supply Voltage for Logic(+5V)
5	V0	—	Power supply for LCD
6	RS	H/L	H: Data; L: Instruction Code
7	R/W	H/L	H: Read; L: Write
8	E	H/L	Enable Signal
9	DB0	H/L	Data Bus Line
10	DB1	H/L	
11	DB2	H/L	
12	DB3	H/L	
13	DB4	H/L	
14	DB5	H/L	
15	DB6	H/L	
16	DB7	H/L	

