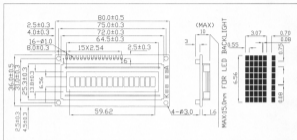


JM161B

16CHAR×LINE
116DOTY+5BIAS

1 EXTERNAL DIMENSION



2 MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W×H×L)	80.0×59.62×11.60 (LED 15.8)	mm
Viewing Area (W×H)	64.5×11.6	mm
Character Code (W×H)	5.7×7.0	dot
Character Size (W×H)	1.07×0.96	mm
Character Pitch (W×H)	1.17	mm
Dot Size (W×H)	0.59×0.59	mm

3 ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage	V_{DD}	-0.3	7	V
LCD Supply Voltage	V_A	$V_{DD}-1.5$	0	V
Input Voltage	V_i	-0.3	$V_{DD}+0.3$	V
Operating Temperature	T_{op}	0	50	°C
Storage Temperature	T_{stg}	-20	70	°C

3 PIN CONNECTIONS

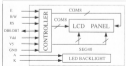
PIN	SYMBOL	SIGNAL DESCRIPTION
1	VDD	Power Supply: +5V
2	V _A	Power Supply: +5V
3	V _S	Power Supply for LCD
4	RS	Register Select: Hi=DATA, Lo=Instruction
5	R/W	Read/Write
6	CS	Chip Select: Lo=CS1 (Hi=CS2 or MP)
7	CS	Chip Select
8	CS	Chip Select
9	CS	Chip Select
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100	CS	Chip Select

6 ELECTRICAL CHARACTERISTICS (T_{op}=25°C)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage (V _{DD})	V_{DD}	-	4.5	5.0	5.5	V
Supply Current (I _{DD})	I_{DD}	-	-	0.9	1.0	mA
Driving Current (I _{DC})	I_{DC}	-	-	0.4	1.0	mA
Driving Voltage (V _{DC})	V_{DC}	$V_{DD}-0.5V$	3.0	4.0	4.5	V
Input Voltage (V _i)	V_i	-	2.3	-	5.0	V
Input Voltage (V _i)	V_i	-	0.5	-	0.6	V
Output Voltage (V _o)	V_o	Input: 30mA	2.4	-	-	V
Output Voltage (V _o)	V_o	Input: 2mA	-	-	3.4	V

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7 BOTTOM BACKLIGHT CHARACTERISTICS (T_{op}=25°C)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V_{DD}	-	-	4.1	-	V
LED Forward Consumption Current	I_f	T _{op} 25°C V _{DD} 1V	-	0	-	mA
LED Allowable Dissipation	P_f	-	-	100	-	mW