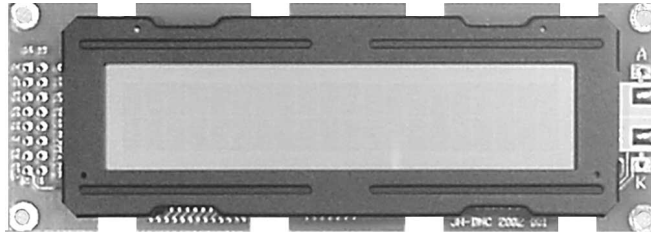


JM 202 A

LCD- Standard Charaktermodul



Hauptmerkmale

- 20 Charakter / 2 Zeilen
- Ziffernhöhe 5.63 mm
- Single Supply +5Volt
- STN- Technologie
- Einstellbarer Kontrast
- Option LED / EL- Beleuchtung

PIN Belegung

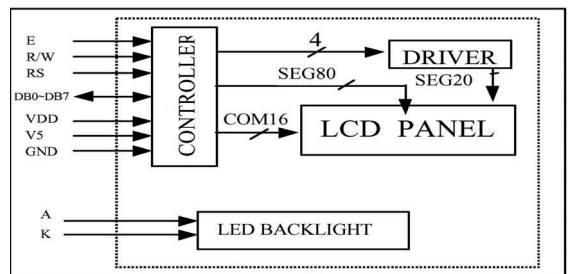
PIN	SYMBOL	SIGNAL DESCRIPTION
1	GND	GND
2	Vdd	Power Supply
3	V5	Adj. Contrast
4	RS	Register Select (H=Data, L=Instruction)
5	R/W	Read/Write L=MPU to LCM, H=LCM to MPU

PIN	SYMBOL	SIGNAL DESCRIPTION
6	E	Enable
7 to 14	DB0 to DB7	Data Bus for 4bit or 8bit Mode
15	A	Anode of LED Unit
16	K	Cathode of LED Unit

Spezifikationen (Ta=25°C)

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage (logic)	Vdd-GND	-	4.5	5.0	5.5	V
Supply Current (logic)	Idd	Vdd=5.0	-	2	3.0	mA
Driving Current (LCD)	Iee		-	0.47	1.5	mA
Driving Voltage (LCD)	Vdd-V5	Vdd=5.0	3.8	4.5	4.9	V
Input Voltage .. H ..	Vih		2.2	-	Vdd	V
Input Voltage .. L ..	Vil	...	-	...	V	
Output Voltage .. H ..	Voh	Ioh=-0.205mA	...	-	-	V
Output Voltage .. L ..	Vol	Iol=1.2mA	-	-	-	V
Option LED	I	ext. Resister	50	200	850	mA
Ambient temp.	t		0	-	55	°C

Block Diagramm



Mechanische Abmessungen

