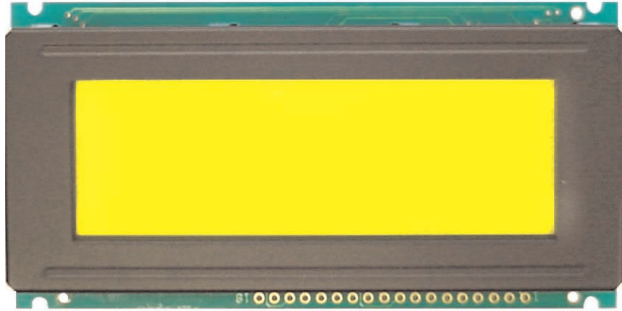


JM 12232 A

LCD- Standard Grafikmodul



Hauptmerkmale

- 122 x 32 dots
- Einstellbarer Kontrast
- STN- Technologie

Optionen

- LED / EL- Beleuchtung
- Erhöhter Temp. Bereich
- Farbige Reflektoren
- TN-FSTN Technologie

PIN Belegung

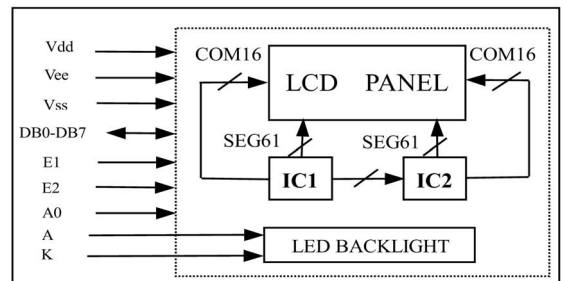
PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vss	GND
2	Vdd	Power Supply
3	Vee	Power Supply for LCD
4	A0	H=Display data, L=Instruction
5	R/W	Read/Write Read when "H", Write when "L"
6	E1	Enable for IC1

PIN	SYMBOL	SIGNAL DESCRIPTION
7	E2	Enable for IC2
8	NC	No connection
9 to 16	DB0 to DB7	Data Bus for 8bit Mode
..	A	Anode of LED Unit
18	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	-	1.4	3.0	mA
Driving Current (LCD)	Iee		-	0.4	1.0	mA
Driving Voltage (LCD)	Vdd-V5		3.8	4.4	4.9	V
Input Voltage -- H --	Vih		2.2	-	Vdd	V
Input Voltage -- L --	Vil		...	-	...	V
Output Voltage -- H --	Voh	Ioh=-0.205mA	2.4	-	-	V
Output Voltage -- L --	Vol	Iol=1.2mA	-	-	...	V
Option LED	I	ext. Resister	50	170	180	mA

Block Diagramm



Mechanische Abmessungen

