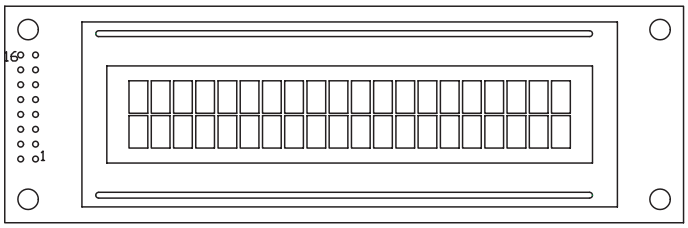
ESE Elektronik AG

LCD-Displays — Datenblatt

CS 2002 B

LCD- Standard Charaktermodul



Hauptmerkmale

- 20 Charakter / 2 Zeilen
- Ziffernhöhe 5.55 mm
- Single Supply +5 Volt
- STN-Technologie
- Einstellbarer Kontrast
- Option LED / EL-Beleuchtung

Kontroller: S6A0069

PIN Belegung

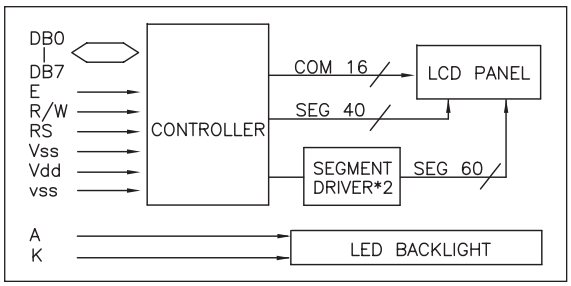
PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vss	Power Supply (GND)
2	Vdd	Power Supply (+5V)
3	Vo	Contrast Adjust
4	RS	Instruction/Data Register Select
5	R/W	Data Read/Write

PIN	SYMBOL	SIGNAL DESCRIPTION
6	E	Enable Signal
7–14	DB0–DB7	Data Bus Line
15	A	Power Supply for LED (+)
16	K	Power Supply for LED (–)

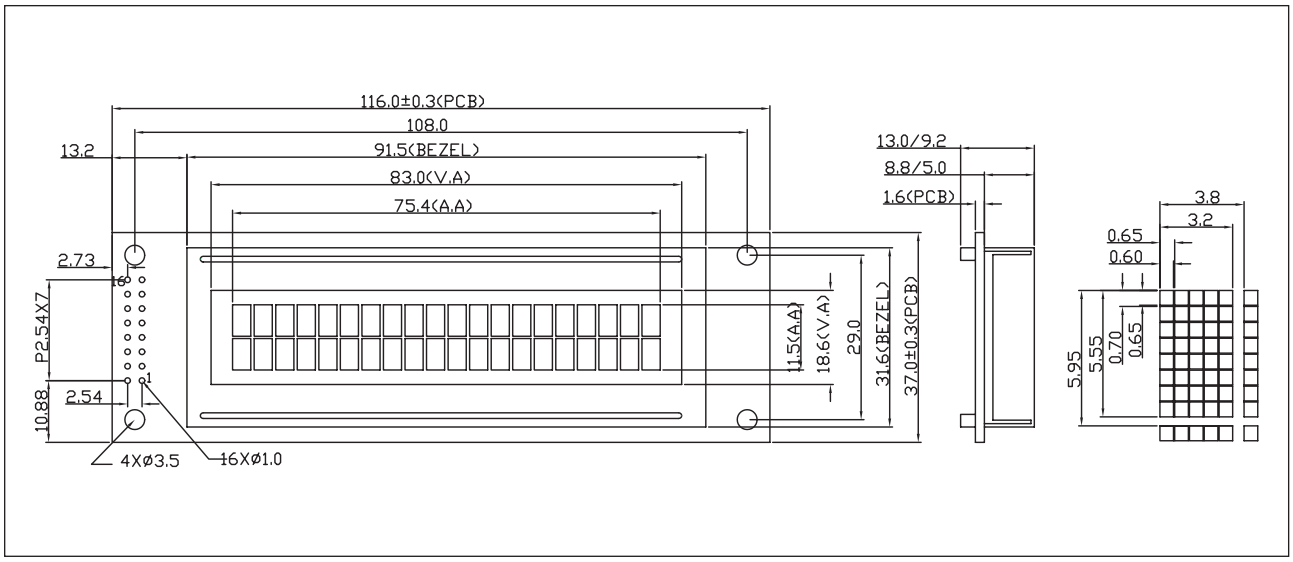
Spezifikationen (TA=25 °C)

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"	V_{IH}	H	0.8Vdd	–	Vdd	V
Input Voltage "L"	V_{IL}	L	Vss	–	0.8	V
Output Voltage "H"	V_{OH}	H	2.4	–	–	V
Output Voltage "L"	V_{OL}	L	–	–	0.4	V

Block Diagramm



Mechanische Abmessung



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