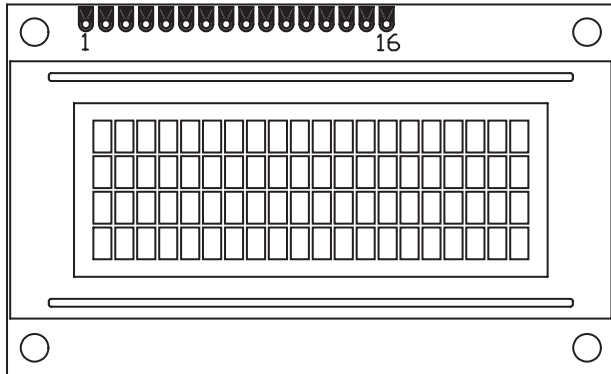


### CS 2004 B

### LCD- Standard Charaktermodul



#### Hauptmerkmale

- 20 Charakter / 4 Zeilen
- Ziffernhöhe 4.03 mm
- Single Supply +5 Volt
- STN-Technologie
- Einstellbarer Kontrast
- Option LED / EL-Beleuchtung

Kontroller: S6A0069

#### PIN Belegung

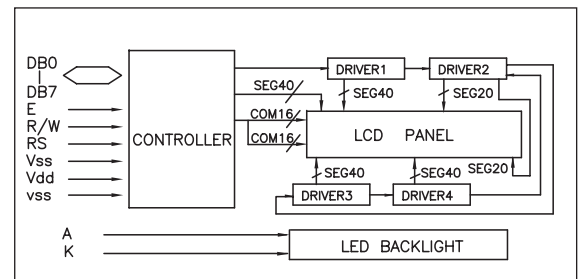
PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vss	Power Supply (GND)
2	Vdd	Power Supply (+5V)
3	Vo	Contrast Adjust
4	RS	Instruction/Data Register Select
5	R/W	Data Read/Write

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 <sub>IH</sub>	H	0.8Vdd	-	Vdd	V
Input Voltage "L"	V <sub>IL</sub>	L	Vss	-	0.8	V
Output Voltage "H"	V <sub>OH</sub>	H	2.4	-	-	V
Output Voltage "L"	V <sub>OL</sub>	L	-	-	0.4	V

#### Block Diagramm



#### Mechanische Abmessung

