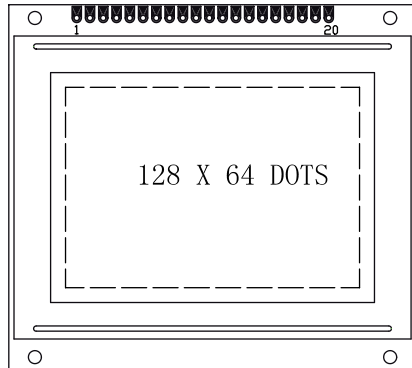


### GS 12864 A

### LCD- Standard Grafikmodul



#### Hauptmerkmale

- 128 x 64 dots
- Einstellbarer Kontrast
- STN-Technologie

#### Optionen

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

Kontroller: KS0107

#### PIN Belegung

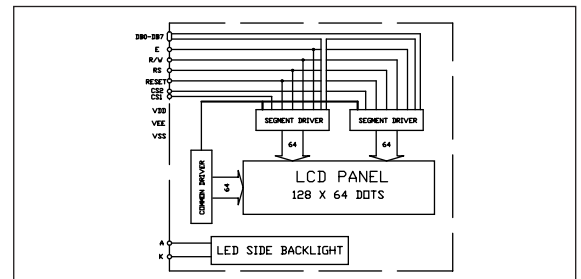
PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vss	Power Supply for Logic
2	Vdd	GND (0V)
3	Vo	Operating Voltage for LCD
4	D/I	H: Data L: Instruction
5	R/W	H: Module to MPU L: MPU to Module
6	E	Enable Signal
7-14	DB0-DB7	Data Bus

PIN	SYMBOL	SIGNAL DESCRIPTION
15	CS1	Select Left
16	CS2	Select Right
17	RST	Reset Signal
18	VEE	Negative Voltage Supply
19	A	Power Supply for Backlight (+)
20	K	Power Supply for Backlight (-)

#### 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	-	1.47	-	mA
Driving Current (LCD)	Iee	Vee=4.2V	-	1.46	-	mA
Driving Voltage (LCD)	Vdd-Vee	-	-	10.9	-	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	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

