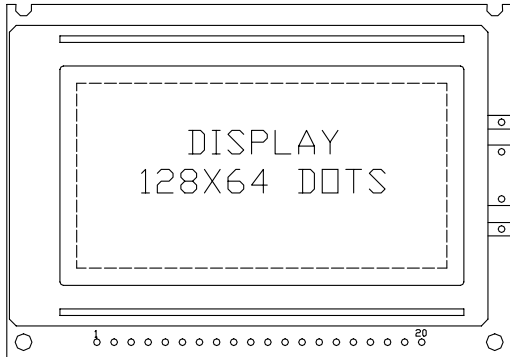


### JM 12864 E

### 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: KS0107B

#### PIN Belegung

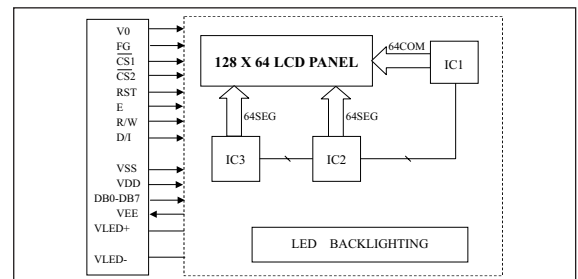
PIN	SYMBOL	SIGNAL DESCRIPTION
1	Vdd	Power Supply for Logic (+5V)
2	Vss	GND (0V)
3	Vo	Contrast Adjust
4-11	DB0-DB7	Data Bus
12	CS1\	Chip Select Signal for IC2 when "L"
13	CS2\	Chip Select Signal for IC3 when "L"
14	RST	Reset active when "L"

PIN	SYMBOL	SIGNAL DESCRIPTION
15	R/W	H:Module to MPU L:MPU to Module
16	D/I	Register Select (H:Data L:Instruction)
17	E	Enable
18	VEE	Negative Voltage Output
19	A	Anode of LED Backlight
20	K	Cathode of LED 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	-	4.0	-	mA
Driving Voltage for LCD	Vdd-V0	-	-	8.7	-	V
Input Voltage "H"	V <sub>IH</sub>	"H" level	0.7Vdd	-	Vdd	V
Input Voltage "L"	V <sub>IL</sub>	"L" level	Vss	-	0.8	V

#### Block Diagramm



#### Mechanische Abmessung

