

### JM 240128 A

### LCD- Standard Grafikmodul



#### Hauptmerkmale

- 240 x 128 dots
- Einstellbarer Kontrast
- STN- Technologie
- mit Toshiba Controller und Zeichensatz

#### Optionen

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

#### PIN Belegung

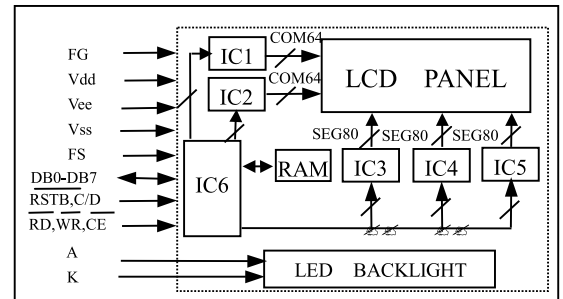
PIN	SYMBOL	SIGNAL DESCRIPTION
1	FG	Frame GND
2	Vss	GND
3	Vdd	Power Supply
4	Vee	Power Supply for LCD
5	WR	Write when "L"
6	RD	Read when "L"

PIN	SYMBOL	SIGNAL DESCRIPTION
7	CE	Enable when "L"
8	C/D	Register Select (L=Data, H=Instruction)
9	RSTB	Reset Signal when "L"
10 to 17	DB0 to DB7	Data Bus for 8bit Mode
18	FS	Select charakter style 6x8 or 8x8

#### 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=5.0	-	9.5	-	mA
Driving Current (LCD)	Iee	-	-	4.6	-	mA
Driving Voltage (LCD)	Vdd-Vee	25..	-	19.0	-	V
Input Voltage .. H ..	Vih	H	0.7Vdd	-	Vdd	V
Input Voltage .. L ..	Vil	L	Vss	-	0.3Vdd	V
Option LED	I	ext. Resister	50	200.0	850.0	mA
Ambient temp.	t		0.0	-	55.0	°C

#### Block Diagramm



#### Mechanische Abmessungen

