

### JM 32064 A

### LCD- Standard Grafikmodul

#### Hauptmerkmale

- 320 x 64 dots
- Single Supply +5Volt
- Einstellbarer Kontrast
- STN- Technologie

#### Optionen

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

#### PIN Belegung

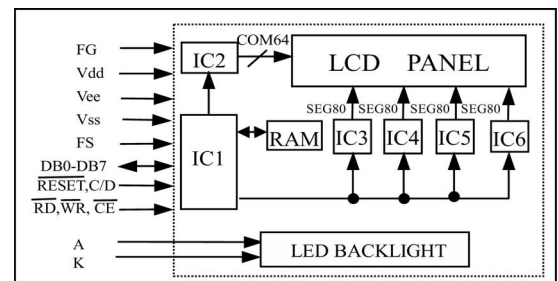
PIN	SYMBOL	SIGNAL DESCRIPTION
1	FG	Frame GND
2	Vss	GND
3	Vdd	Power Supply
4	Vee	Power Supply for LCD
5	WR	Write when "L"
6	RD	Read when "L"
7	CE	Enable when "L"
8	C/D	Register Select (L=DATA, H= Instructin)

PIN	SYMBOL	SIGNAL DESCRIPTION
9	NC	No connection
10	RESET	Reset when "L"
11 to 18	DB0 to DB7	Data Bus for 8bit Mode
19	FS	Select character style 6X8 or 8X8
20	NC	No connection
21	A	Anode of LED Unit
22	K	Cathode of LED Unit

#### 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	-	8.6	-	mA
Driving Current (LCD)	Iee	Vee=7.8	-	4	-	mA
Driving Voltage (LCD)	Vdd-Vee	25°C	-	12.8	-	V
Input Voltage · H ·	Vih	H	Vdd-2.2	-	Vdd	V
Input Voltage · L ·	Vil	L	0	-	0.8	V
Option LED	I	ext. Resister	5o	200	850	mA
Ambient temp.	t		0	-	50	°C

#### Block Diagramm



#### Mechanische Abmessungen

