

### JM 24064 A

### LCD- Standard Grafikmodul



#### Hauptmerkmale

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

#### Optionen

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

#### PIN Belegung

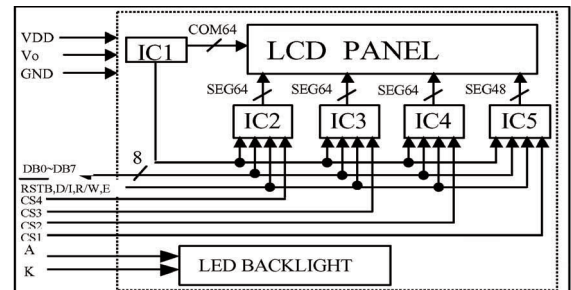
PIN	SYMBOL	SIGNAL DESCRIPTION
1	GND	GND
2	Vdd	Power Supply
3	V0	Power Supply for LCD
4	D/I	Register Select (H=DATA, L=Instruction)
5	R/W	Read/Write L=MPU to LCM, H=LCM to MPU
6	E	Enable

PIN	SYMBOL	SIGNAL DESCRIPTION
7	RSTB	Reset Signal when "L"
8 to 15	DB0 to DB7	Data Bus for 8bits Mode
16 to 19	CS1 to CS4	Chip select Signal for IC5 to IC2
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-GND	-	4.5	5.0	5.5	V
Supply Current (logic)	Idd	Vdd=5.0	-	8.0	-	mA
Driving Current (LCD)	Iee	Vee=12.8	-	2.0	-	mA
Driving Voltage (LCD)	Vdd-V0	25°	-	12.8	-	V
Input Voltage .. H ..	Vih	H	0.7Vdd	-	Vdd	V
Input Voltage .. L ..	Vil	L	GND	-	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

