



PIN ASSIGNMENT

NO.	SYMBOL	FUNCTION DISCRIPTION
1	FRAME	FIRST LINE START-UP SIGNAL
2	DF (M)	ALTERNATE SIGNAL
3	LOAD	DATA LTATCH
4	CP	DATA SHIFT
5	DISPOFF	H: DISPLAY ON L: DISPLAY OFF
6-9	DB0-DB3	DATA BUS LINE (4-BIT)
10	VDD	POWER SUPPLY FOR LOGIC (+5V)
11	VSS	POWER SUPPLY (GND)
12	NC/VEE	NC/NEGATIV VOLTAGE OUTPUT
13	V0	CONTRAST VOLTAGE FOR LCD
14	FGND	FRAME GROUND

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
MODULE SIZE	144.0 x 104.0	MM
VIEWING AREA	114.0 x 64.0	MM
DOT SIZE	0.4 x 0.4	MM
DOT PITCH	0.45 x 0.45	MM

ABSOLUTE MAXIMUM RATING

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
V-SUPPLY FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V
V-SUPPLY FOR LCD	VDD-VEE	0	-	32	V

VSS=0V, VDD=5.0V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDIT.	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
INPUT VOLTAGE	VIO	VIH	0.8VDD	-	VDD	V
		VIL	VSS	-	0.2VDD	
SUPPLY CURRENT	IDD	VDD=+5V	-	10	15	MA
RECOMMENDED LC DRIVING VOLTAGE FOR STANDARD TEMP. MODULES	VDD-V0	-20 °C	-	-	26.1	V
		25 °C	-	23.8	-	
		70 °C	20.9	-	-	
CCFL VOLTAGE STARTING	VFLS	25 °C	-	600	-	VRMS
CCFL VOLTAGE DRIVING	VFLD		-	268	-	VRMS
CCFL CURRENT DRIVING	IFLD	VFQ=450VRMS 30KHZ	-	5.0	-	MARMS
CCFL LIFE TIME	-	-	15000	-	-	HRS
LED FORWARD VOLTAGE	VF	25 °C	-	5.0	5.5	MA
LED FORWARD CURRENT	IF		-	80	-	

OPTIONS: STN Y/G STN Y/G-GAY STN BLUE FSTN B/W
 MODE/BACKLIGHT: REFL.POS. POS./LEDY NEG./LEDW CCFL/LEDW

THIS DATA SHEET IS FOR REFERENCE ONLY.
 THE COLOR OF THE DISPLAY MAY VARY SLIGHTLY DEPENDING ON DIFFERENT PRODUCTION LOTS AND AMBIENT LIGHT. WE RESERVE THE RIGHT TO CHANGES AND IMPROVMENTS WITHOUT PRIOR NOTICE.

∞320 X 240 DOTS GRAPHIC ∞1/240 DUTY ∞CCFL OR LEDW B/L ∞NO CONTROLLER ON BOARD ∞OPTIONS: RA8835 OPTIONAL +5V SINGLE SUPPLY 10x6 MATRIX TOUCH PANEL

AV32244

320x240 GRAPHIC

Tel.: +49 89 89979764
 Fax: +49 89 89979765



Email: sales@dst-gmbh.de
 Internet: www.dst-gmbh.de

ALL DIMENSIONS ARE IN MM. TOLERANCE IS +/-0.3 UNLESS OTHERWISE NOTED.



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