

SG320240L (320 DOTS X 240 DOTS)

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FEATURES

- ◆ RECOMMENDED SCREEN (HD64646/MSM6225/SED1335)
- ◆ +5 V POWER SUPPLY
- ◆ 1/240 DUTY CYCLE
- ◆ EDGE LIGHTING TYPE CCFL BACKLIGHT

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	148.3 x 100.0 x 14.1	mm
Viewing Area (W x H)	107.2 x 78.4	mm
Active Area (W x H)	99.17 x 74.37	mm
Dot Size (W x H)	0.28 x 0.28	mm
Dot Pitch (W x H)	0.31 x 0.31	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	DB0	H/L	Data Bit1
2	DB1	H/L	Data Bit2
3	DB2	H/L	Data Bit3
4	DB3	H/L	Data Bit4
5	FLM	H	Frame Signal
6	M	H/L	Control Signal For AC Driving
7	CL1	H→L	Common Driver Data Shift Signal
8	CL2	H→L	Clock Pulse For Segment Shift Register
9	/DISPOFF	L	Display OFF Active LOW
10	Vss	0V	Power Supply Ground
11	FG	-	For GND
12	VDD	5V	Power Supply Voltage
13	VEE	-	Power Supply Voltage For LCD
14	Vo	-	Contrast Adjustment Voltage

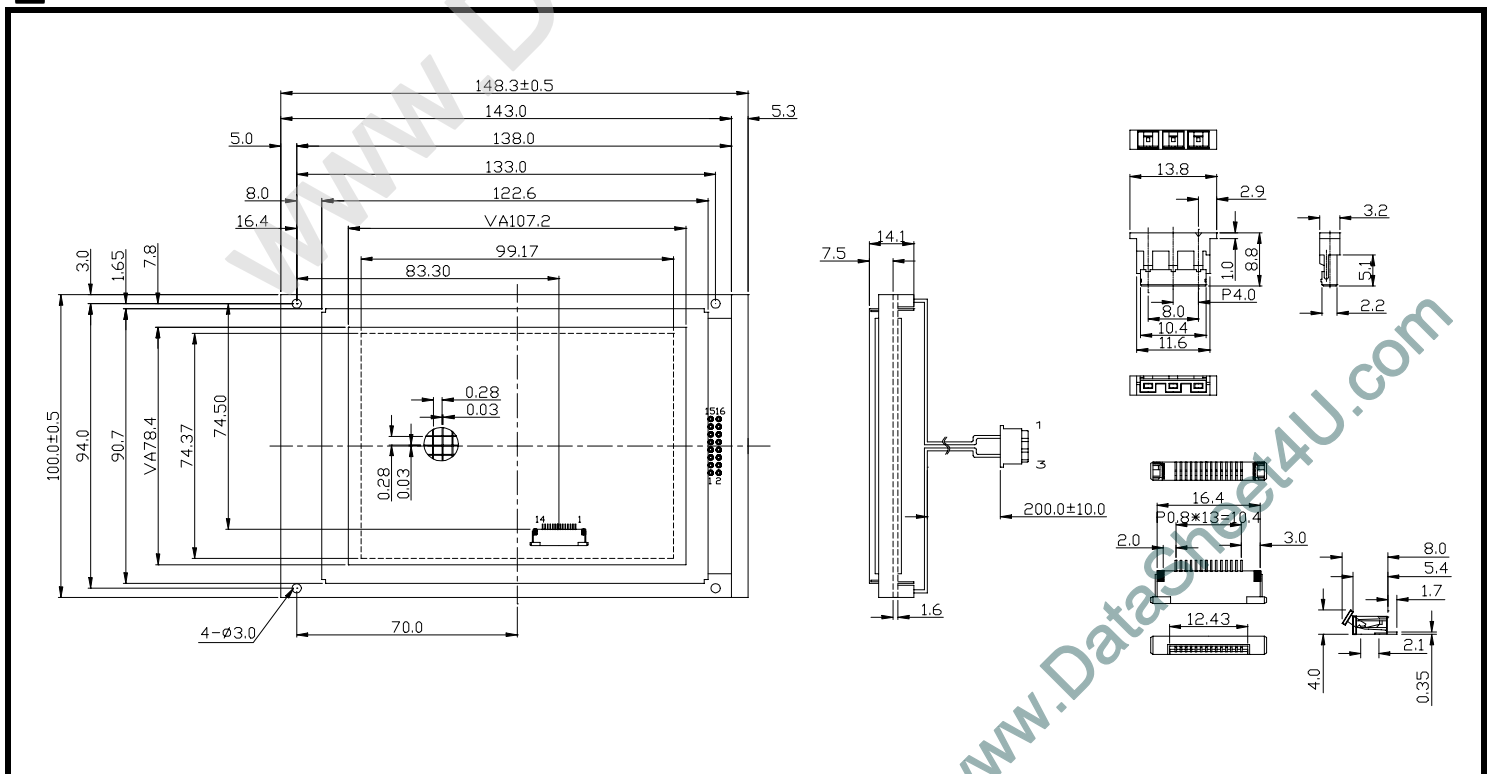
ABSOLUTE MAXIMUM RATINGS

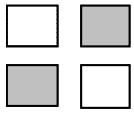
ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	VDD-Vss	0	-	7	V
Supply Voltage For LCD Drive	VDD-Vo	0	-	30	V
Input Voltage	Vi	Vss	-	VDD	V

ELECTRICAL CHARACTERISTICS

ITEM		SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic		VDD-VSS	-	4.5	5	5.5	V
LCD Supply Voltage		VDD-V ₀	VDD=5V Ta=25℃	22.4	23.5	24.3	V
Supply Current		IDD	VDD=5V	-	16	25	mA
Input	"HIGH" Level	V _{IH}	-	2.2	-	VDD	V
Voltage	"LOW" Level	V _{IL}	-	-	-	0.6	V
Output	"HIGH" Level	V _{OH}	-	2.4	-	-	V
Voltage	"LOW" Level	V _{OL}	-	-	-	0.4	V

EXTERNAL DIMENSIONS

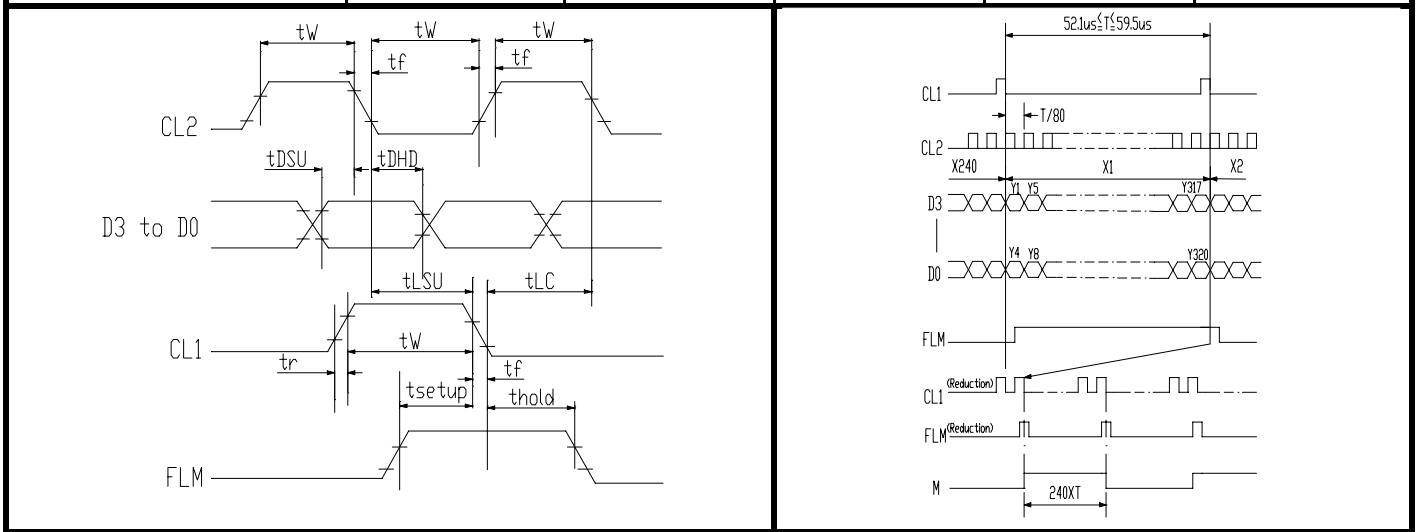




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TIMING CHARACTERISTICS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT.
Frequency Of Maximum Clock	f_{CP}	-	-	8	MHZ
CL1, CL2, Pulse Width	t_w	45	-	-	ns
Rise, Fall Time	t_r, t_f	-	-	15	ns
Data Setup Time	t_{DSU}	20	-	-	ns
Data Hold Time	t_{DHD}	20	-	-	ns
CL1 Setup Time	t_{LSU}	80	-	-	ns
CL1→ CL2 Time	t_{LC}	80	-	-	ns
FLM Setup Time	t_{setup}	100	-	-	ns
FLM Hold Time	t_{hold}	100	-	-	ns
M Delay Time	t_{DF}	-	-	300	ns



BLOCK DIAGRAM

