



SG320240E (320 DOTS X 240 DOTS)

FEATURES

- NO BUILT-IN CONTROLLER
- 3.3V / 5.0V POWER SUPPLY
- 1/240 DUTY CYCLE
- BUILT-IN ELECTRIC VOLUME
- 4-BIT PARALLEL INTERFACE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	109.0 x 70.25 x 7.9	mm
Viewing Area (W x H)	78.8 x 59.6	mm
Active Area (W x H)	76.79 x 57.59	mm
Dot Size (W x H)	0.23 x 0.23	mm
Dot Pitch (W x H)	0.24 x 0.24	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	VDIN	H/L	Electric Volume data input pin.
2	VCLK	H/L	Electric Volume data input pin.
3	VSTRB	H/L	Electric Volume data input pin.
4	V _{DD}	3.3V	Power Supply Voltage
5	FLM	H/L	Frame start signal
6	V _{SS}	0V	Power Supply Ground
7	CL1	H/ L	Common Driver Data Shift Signal
8	V _{SS}	0V	Power Supply Ground
9	M	H/L	Control Signal For AC Driving
10	/D-OFF	H/L	Display OFF. Active LOW.
11	CL2	H L	Common Driver Data Shift Signal
12 13	NC	-	No Connection.
14 17	DB3 DB0	H/L	Data Bus Line
18 22	FGND	-	Frame Ground
23	V _{DD}	3.3V	Logic supply voltage
24	/EL_ON	L	EL/LED Backlight Signal

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	0	-	7	V
Supply Voltage For LCD Drive	V _O -V _{SS}	0	-	30	V
Input Voltage	V _I	V _{SS}	-	V _{DD}	V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V _{DD} -V _{SS}	-	2.7	3.3	5.5	V	
LCD Supply Voltage	V _O -V _{SS}	V _{DD} =3.3V Ta=25	19.8	21.0	22.3	V	
Supply Current	I _{DD}	V _{DD} =3.3V	-	4.5	6.5	mA	
Input Voltage	"HIGH" Level	V _{IH}	-	2.2	-	V _{DD}	V
	"LOW" Level	V _{IL}	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V _{OH}	-	2.4	-	V	V
	"LOW" Level	V _{OL}	-	-	-	0.4	V

EXTERNAL DIMENSIONS

