

SH320240A (320 DOTS X 240 DOTS)

FEATURES

- BUILT-IN CONTROLLER (RA8835 OR EQUIVALENT)
- +5 V POWER SUPPLY
- 1/240 DUTY CYCLE
- 8-BIT PARALLEL INTERFACE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	160.0 x 109.0 x 10.5	mm
Viewing Area (W x H)	121.0 x 92.0	mm
Active Area (W x H)	115.17 x 86.37	mm
Dot Size (W x H)	0.33 x 0.33	mm
Dot Pitch (W x H)	0.36 x 0.36	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	/RES	H/L	Reset Signal
2	/RD	L	Read Signal
3	/WR	L	Write Signal
4	/CS	L	Chip Signal
5	A ₀	H/L	Data Type Select
6~13	DB0-DB7	H/L	Data Bus Line
14	V _{DD}	5V	Power Supply Voltage
15	V _{SS}	0V	Power Supply Ground
16	V _{LCD}	-	Power Supply Voltage For LCD
17	VO	-	Contrast Adjustment Voltage
18	DSPOFF	-	Diaply OFF.Active LOW

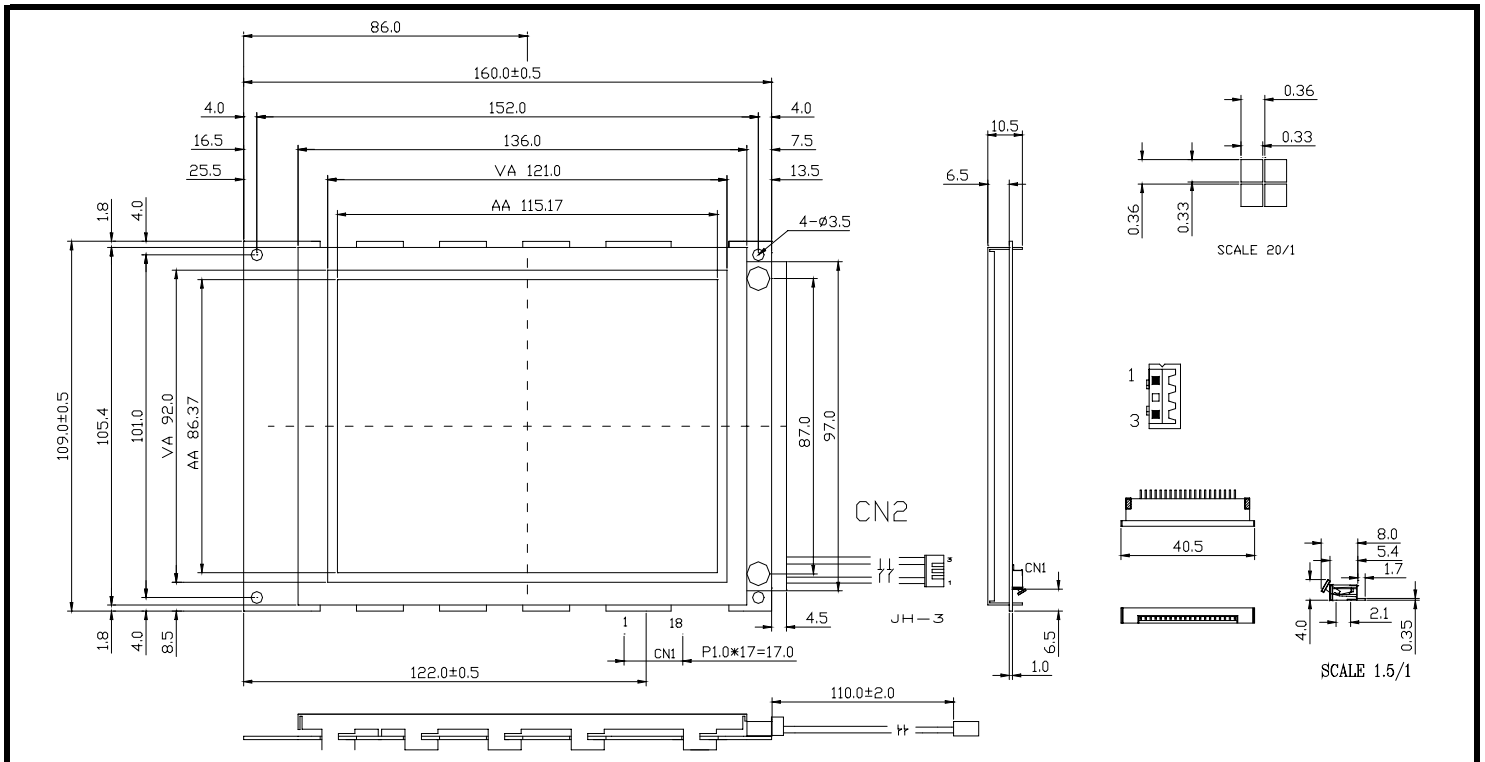
ABSOLUTE MAXIMUM RATINGS

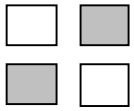
ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V _{DD} -V _{SS}	0	-	7	V
Supply Voltage For LCD Drive	V _{DD} -V _o	0	-	30	V
Input Voltage	V _I	V _{SS}	-	V _{DD}	V

ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V _{DD} -V _{SS}	-	4.5	5	5.5	V	
LCD Supply Voltage	V _{DD} -V _o	V _{DD} =5V Ta=25	22.4	23.5	24.3	V	
Supply Current	I _{DD}	V _{DD} =5V	-	16	25	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
	"LOW" Level	V _{OL}	-	-	-	0.4	V

EXTERNAL DIMENSIONS

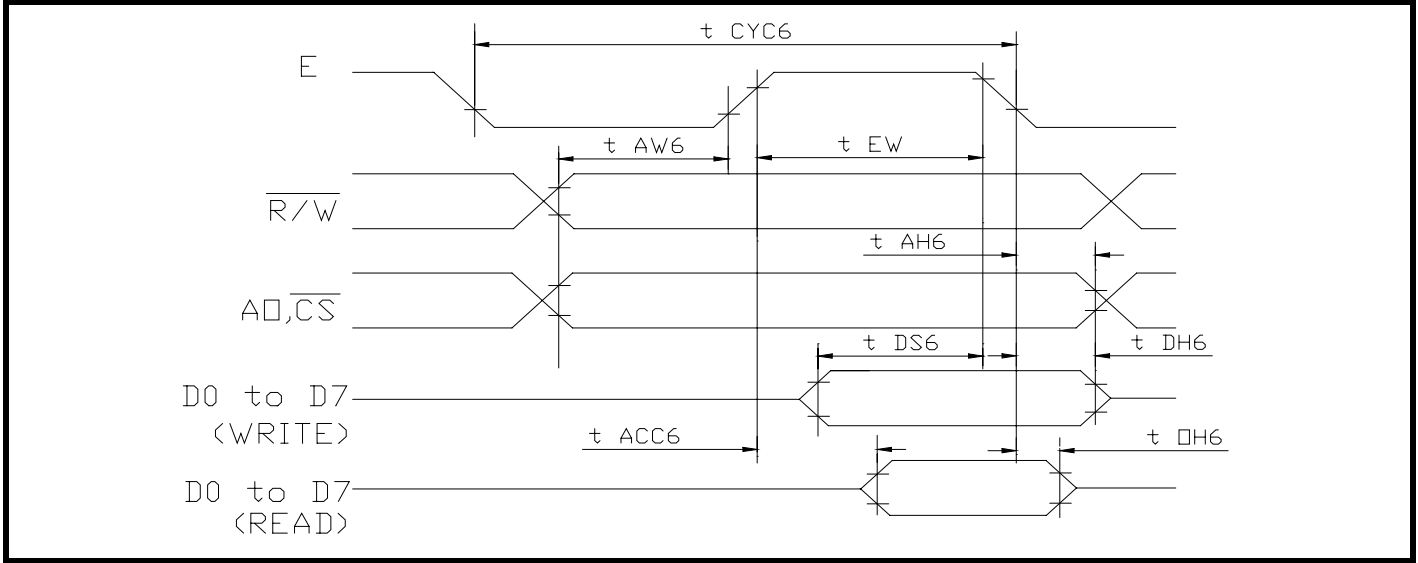




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TIMING CHARACTERISTICS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT.
System Cycle Time	t_{CYC}	425	-	-	ns
Address Set-up Time	t_{AW}	30	-	-	ns
Address Hold Time	t_{AH}	10	-	-	ns
Data Set-up Time	t_{DS}	120	-	-	ns
Data Hold Time	t_{DH}	10	-	-	ns
Output Disable Time	t_{OH}	10	-	50	ns
Access Time	t_{ACC}	-	-	120	ns
Enable Pulse Width	Read	t_{EW}	-	-	ns
	Write				



BLOCK DIAGRAM

