

***ME* DISPLAYS**

SPECIFICATIONS

FOR

LCD MODULE

SH320240A

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• FEATURES

Number of Dots	320 x 240
Built-in Controller	SED1335 or Equivalent
Duty Cycle	1/240 Duty
Power Supply	5V
Backlight Options	Edge Lighting Type CCFL

• MECHANICAL PARAMETERS

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

• ABSOLUTE MAXIMUM

Item	Symbol	Min.	Max	Unit
Supply Voltage for Logic	$V_{DD} - V_{SS}$	0	+7.0	V
Supply Voltage for LCD Drive	$V_{DD} - V_O$	0	+30.0	V
Input Voltage	V_i	V_{SS}	V_{DD}	V
Operating Temperature	T_a	0	+50	C
Storage Temperature	T_{stg}	-10	+60	C

• ELECTRICAL CHARACTERISTICS

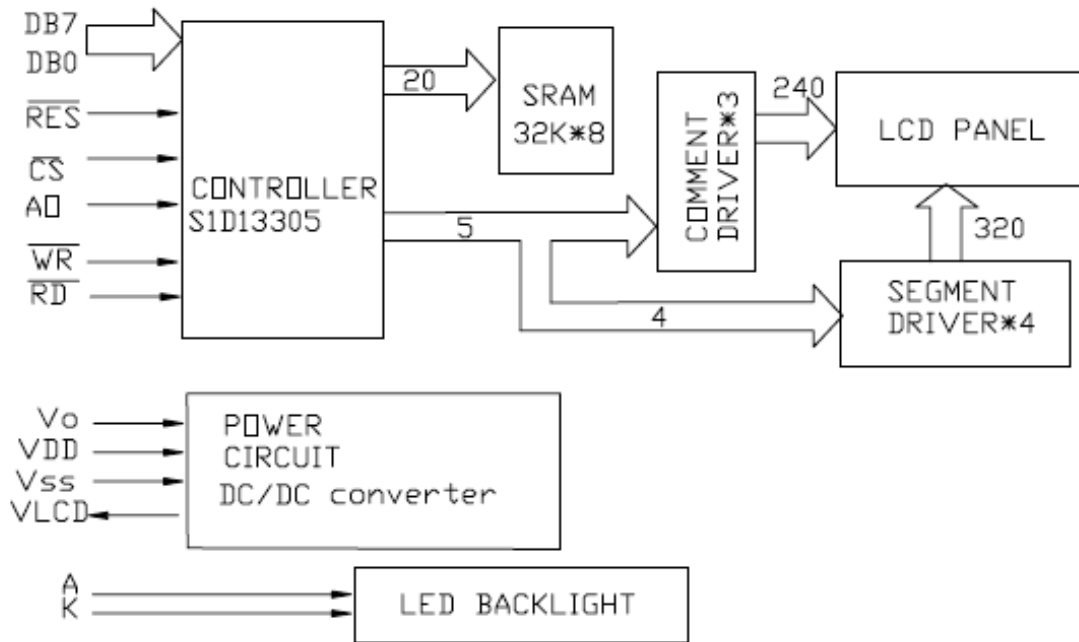
Item	Symbol	Condition	Min	Typ	Max	U
Power Supply Voltage for Logic	$V_{DD} - V_{SS}$	--	4.5	5.0	5.5	V
Power Supply Voltage for LCD	$V_{DD} - V_O$	$V_{DD}=5V$ $T_a=25C$	22.4	23.5	24.3	V
Input "High" Voltage(1)	V_{ih}	--	2.2	--	V_{DD}	V
Input "Low" Voltage(1)	V_{il}	--	--	--	0.6	V
Output "High" Voltage(1)	V_{oh}	--	2.4	--	--	V
Output "Low" Voltage(1)	V_{ol}	--	--	--	0.4	V
Power Supply Current	I_{DD}	$V_{DD} = 5.0V$	--	16	25	mA

(1) Applied to terminals CS1, CS2, DB0~DB7, R/W, D/I, E RST

• PIN ASSIGNMENT

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	BD0 – 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	V _O	--	Contrast Adjustment Voltage
18	DISPOFF	--	Display OFF. Active LOW

• BLOCK DIAGRAM



• TIMING CHARACTERISTICS

Item	Symbol	Min	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_{AAC}	--	120	ns
Enable Pulse Width (Read)	t_{EW}	220	--	ns
Enable Pulse Width (Write)	t_{EW}	220	--	ns

• TIMING DIAGRAMS

