



# SH320240C ( 320 DOTS X 240 DOTS )

## FEATURES

- ◆ BUILT-IN CONTROLLER (SED1335 OR EQUIVALENT)
- ◆ +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 )	148.0 x 120.2 x 20.5	mm
Viewing Area ( W x H )	120.14 x 92.14	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	V <sub>SS</sub>	0V	Power Supply Ground
2	V <sub>DD</sub>	5V	Power Supply Voltage
3	V <sub>0</sub>	-	Contrast Adjustment Voltage
4	/RD	L	Read Signal
5	/WR	L	Write Signal
6	A <sub>0</sub>	H/L	Data Type Select
7-14	DB0-DB7	H/L	Data Bus Line
15	/CS	L	Chip Signal
16	/RES	H/L	Reset Signal
17	V <sub>out</sub>	-	Power Supply Voltage For LCD
18	FG	-	For GND
19	NC	-	No Connection
20	NC	-	No Connection

## ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	V <sub>DD</sub> -V <sub>SS</sub>	0	-	7	V
Supply Voltage For LCD Drive	V <sub>DD</sub> -V <sub>0</sub>	0	-	30	V
Input Voltage	V <sub>I</sub>	V <sub>SS</sub>	-	V <sub>DD</sub>	V

## ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Supply Voltage For Logic	V <sub>DD</sub> -V <sub>SS</sub>	-	4.5	5	5.5	V	
LCD Supply Voltage	V <sub>DD</sub> -V <sub>0</sub>	V <sub>DD</sub> =5V Ta=25°C	22.4	23.5	24.3	V	
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	16	25	mA	
Input Voltage	"HIGH" Level	V <sub>IH</sub>	-	2.2	-	V <sub>DD</sub>	V
	"LOW" Level	V <sub>IL</sub>	-	-	-	0.6	V
Output Voltage	"HIGH" Level	V <sub>OH</sub>	-	2.4	-	V	V
	"LOW" Level	V <sub>OL</sub>	-	-	-	0.4	V

## EXTERNAL DIMENSIONS

