



FEATURES

- ◆ BUILT-IN CONTROLLER (T6963C OR EQUIVALENT)
- ◆ +5 V POWER SUPPLY
- ◆ 1/128 DUTY CYCLE
- ◆ 8-BIT PARALLEL INTERFACE

MECHANICAL DATA

ITEM	DIMENSIONS	UNIT
Module Size (W x H x T)	170.0 x 102.0 x 14.0 (15.5)	mm
Viewing Area (W x H)	132.0 x 76.0	mm
Active Area (W x H)	119.97 x 63.97	mm
Dot Size (W x H)	0.47 x 0.47	mm
Dot Pitch (W x H)	0.50 x 0.50	mm

INTERFACE PIN CONNECTIONS

NO.	SYMBOL	LEVEL	FUNCTION
1	FGND	-	Frame Ground
2	Vss	0V	Power Supply Ground
3	VDD	5V	Power Supply Voltage
4	Vo	-	Contrast Adjustment Voltage
5	/WR	L	Write Signal
6	/RD	L	Read Signal
7	/CE	L	Enable Signal
8	C/D	H/L	H : Instruction Code , L : Data Code
9	NC	-	No Connection
10	/RST	L	Reset Signal
11~18	DB0~DB7	H/L	Data Bus Line
19	FS	H/L	H : 6*8 , L : 8*8 Select Of Columns
20	RV	H/L	H : Reverse display ; L : Normal display

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	-	28	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-Vo	VDD=5V Ta=25°C	16.9	18	19.2	V	
Supply Current	IDD	VDD=5V	-	15	24	mA	
Input Voltage	"HIGH" Level	V _{IH}	-	2.2	-	VDD	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