

GENERAL SPECIFICATION

Item	Content
Number of Character	240x64
Module Size	180.0(W)x65.0(H)x23.0(D)mm Max
Viewing Area	132.0(W)x39.0(H)mm
Dot Size/Dot Pitch	0.51(W)x0.51(H)mm/0.53(W)x0.53(H)mm
Backlight	CCFL
Options	Black & White Positive/Negative, Gray STN, Yellow STN, Normal/Wide Temperature, Top/Bottom Viewing
Built-in Controller	T6963C

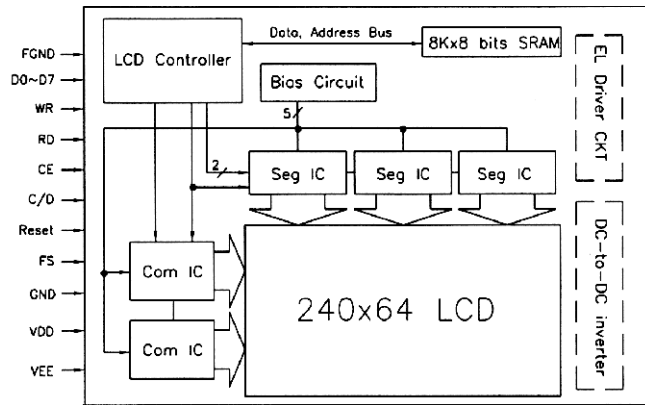
INTERFACE PIN ASSIGNMENT

Pin No.	Pin Out	Function Description
1	FGND	Frame Ground
2	V _{SS}	GND
3	V _{DD}	Logic supply voltage
4	V _{EE}	LCD driver supply voltage
5	WR	Write Data
6	RD	Read Data
7	CE	Chip Enable
8	C/D	Common/Data Register select
9	NC	No connection
10	RES	Reset
11~18	DB0-DB7	data bus
19	FS	Font select. H=6x8 dot matrix, L=8x8 dot matrix
20	NC	No connection

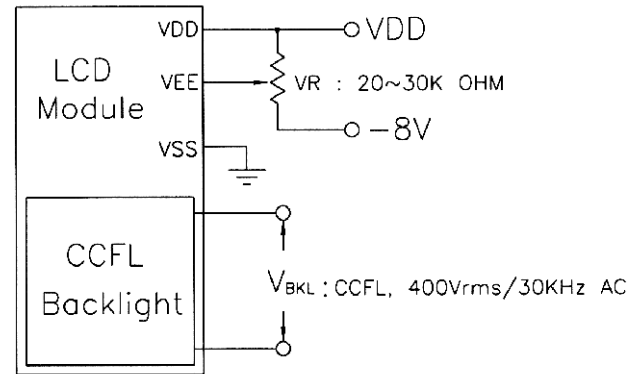
ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typ	Max.	Unit	note
Power Supply for Logic	V _{DD} -V _{SS}	-	4.5	5.0	5.5	Volt	-
Input Voltage	V _{IL}	L level	V _{SS}	0.2V _{DD}	-		
	V _{IH}	H level	0.8V _{DD}	V _{DD}	-		
LCM Recommend LCD Module Driving Voltage	V _{DD} -V _{EE}	Ta=0°C	10.1	10.7	11.3	Volt	-
		Ta=25°C	9.7	10.3	10.9		
		Ta=50°C	9.6	10.2	10.8		
Power Supply Current for LCM	I _{DD}	V _{DD} =5.0V Ta=25°C	-	10	15	mA	-
	I _{EE}	V _{EE} -V _{SS} =10.3V FLM=64Hz Ta=25°C	-	2.0	3.0		
CCFL Starting Voltage	V _{FLS}	FLM=64Hz Ta=25°C	-	750	-	V _{RMS}	-
CCFL driving Voltage	V _{CCFL}	-	-	360	-	V _{RMS}	-
CCFL driving Current	I _{CCFL}	V _{CCFL} =450V _{RMS}	-	5.0	-	mA	-
CCFL driving Frequency	F _{CCFL}	F _{CCFL} =30KHz Ta=25°C	15	30	85	KHz	-
CCFL Saturation Time	T _{SAT}	-	-	60	-	Sec-ond	-

BLOCK DIAGRAM



POWER SUPPLY



MECHANICAL

