

GENERAL SPECIFICATION

Item	Content
Number of Character	240x64
Module Size	180.0(W)x65.0(H)x9.9/16.1(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	Without/EL/LED
Options	Black & White Positive/Negative/Gray STN/Yellow STN/Wide Temperature/Top/Bottom Viewing
Built-in Controller	T6963C

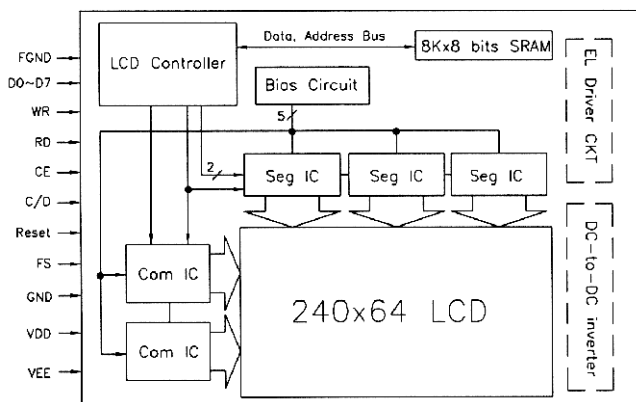
ELECTRICAL CHARACTERISTICS

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	-	-	-	Volt	-
		Ta=25°C	12.4	12.8	13.2		
		Ta=50°C	-	-	-		
Power Supply Current for LCM	I_{DD} (EL B/L OFF)	$V_{DD}=5.0V$ $V_{DD}-V_{EE}=12.8V$ FLM=64Hz	-	12	15	mA	-
	I_{EE}		-	1.5	3.0		
	I_{LED}	$V_{LED}=4.2V$	-	660	990		

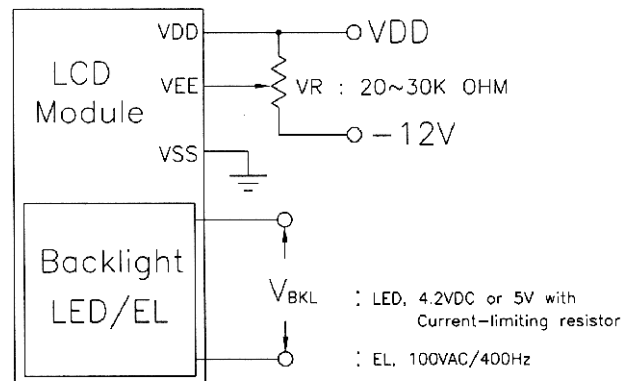
INTERFACE PIN ASSIGNMENT

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

BLOCK DIAGRAM



POWER SUPPLY



MECHANICAL

