

GENERAL SPECIFICATION

Item	Content
Number of Character	20x2
Module Size	182.0(W)x40.0(H)x9.5/15.0(D)mm Max
Viewing Area	149.0(W)x23.0(H)mm
Character Size	6.0(W)x9.66(H)mm
Dot Size/Dot Pitch	1.12(W)x1.12(H)mm/1.22(W)x1.22(H)mm
Backlight	Without/LED
Options	Gray STN/Yellow STN/Extended Temperature/Bottom/Top Viewing

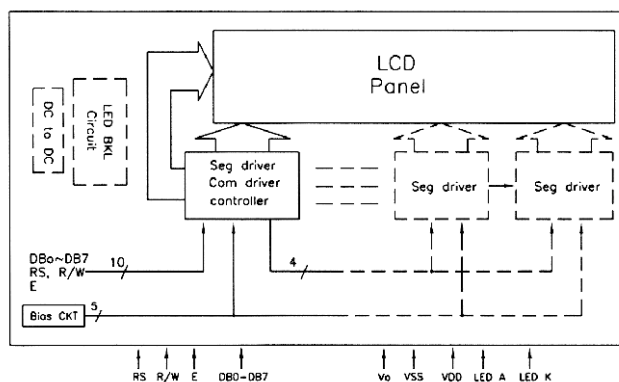
ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	Note
Power Supply for Logic	$V_{DD}-V_{SS}$	-	2.7	4.5	5.5	Volt	-
Input Voltage	V_{IL}	L level	V_{SS}	$0.2V_{DD}$	-	Volt	-
	V_{IH}	H level	$0.8V_{DD}$	V_{DD}	-	Volt	
LCM Recommend LCD Module Driving Voltage	$V_{DD}=5V$ $V_{DD}-V_O=4.0V$	Ta=0°C	-	-	-	Volt	-
		Ta=25°C	3.8	4.0	4.4		
		Ta=50°C	-	-	-		
Power Supply Current for LCM	$I_{DD}(B/L\ OFF)$	$V_{DD}=5V$ $V_{DD}-V_O=4.0V$	-	1.5	2.0	mA	-
	I_{LED}	Ta=25°C	-	130	160		

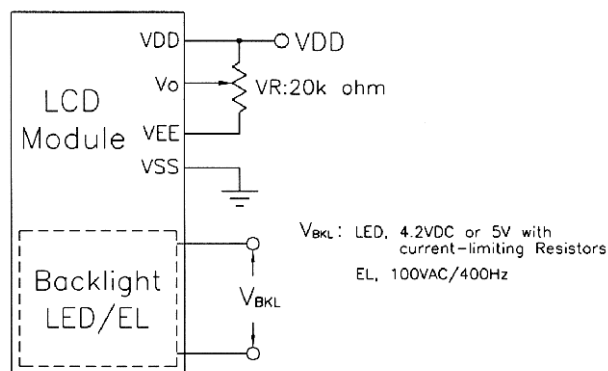
INTERFACE PIN ASSIGNMENT

Pin No.	Pin Out	Function Description
1	V _{SS}	Ground
2	V _{DD}	Logic Circuit Power Supply
3	V _O	Power Supply for LCD Panel
4	RS	Data/Instruction Register Select
5	R/W	Read/Write Select
6	E	Enable Signal
7~14	DB0~DB7	3-State I/O Data Bus
15	BKL1	Power Supply for Backlight. 100V/400Hz AC for EL, 4.2V or 120~180mA DC for LED backlight. Don't care if no backlight
16	BKL2	

BLOCK DIAGRAM



POWER SUPPLY



MECHANICAL

