

GENERAL SPECIFICATION

Item	Content
Number of Character	20x4
Module Size	98.5(W)x60.0(H)x10.5/14.5(D)mm Max
Viewing Area	76.0(W)x25.2(H)mm
Character Size	2.95(W)x4.75(H)mm
Dot Size/Dot Pitch	0.55(W)x0.55(H)mm/0.60(W)x0.60(H)mm
Backlight	Without/EL/LED
Options	Gray STN/Yellow STN/Normal/Extended Temperature/Bottom/Top Viewing

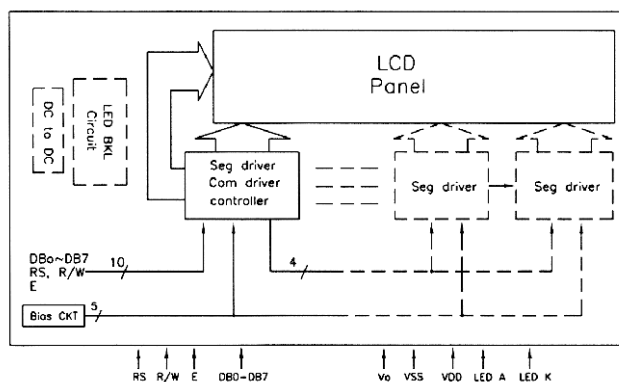
ELECTRICAL CHARACTERISTICS

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	$V_{DD}=5V$	Ta=0°C	4.3	4.5	4.7	Volt	-
		Ta=25°C	4.4	4.6	4.8		
		Ta=50°C	4.2	4.4	4.6		
Power Supply Current for LCM	$I_{DD}(B/L \text{ OFF})$	$V_{DD}=5V$ $V_{DD}-V_o=4.6V$	-	1.5	2.0	mA	-
	I_{LED}	Ta=25°C	-	175	280		

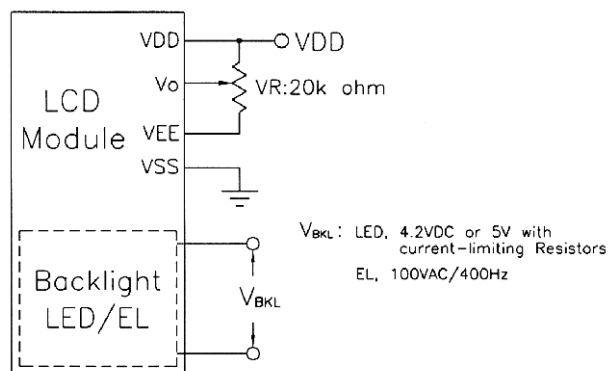
INTERFACE PIN ASSIGNMENT

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

