

GENERAL SPECIFICATION

Item	Content
Number of Character	40x4
Module Size	190.0(W)x54.0(H)x9.1/14.0(D)mm Max
Viewing Area	147.0(W)x29.5(H)mm
Character Size	2.78(W)x4.89(H)mm
Dot Size/Dot Pitch	0.50(W)x0.55(H)mm/0.57(W)x0.62(H)mm
Backlight	Without/EL/LED
Options	Gray STN/Yellow STN/Extended Temperature/Bottom/Top Viewing

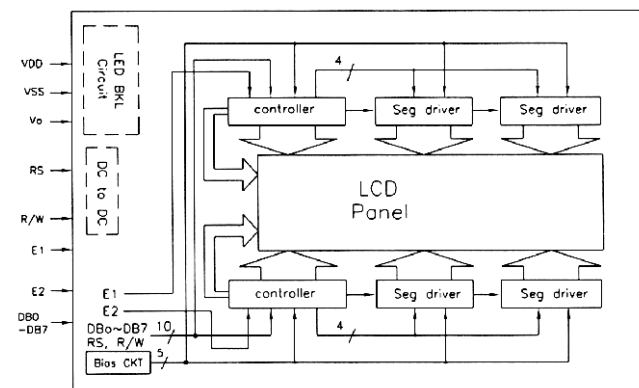
ELECTRICAL CHARACTERISTICS

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	$V_{DD}=5V$	$T_a=0^{\circ}C$	-	-	-	Volt	-
		$T_a=25^{\circ}C$	3.8	4.05	4.3		
		$T_a=50^{\circ}C$	-	-	-		
Power Supply Current for LCM	$I_{DD}(B/L \text{ OFF})$	$V_{DD}=5.0V$ $V_{DD}-V_o=4.05V$ $T_a=25^{\circ}C$	-	2.8	4.0	mA	-
	I_{LED}	$I=4.2V$	-	140	200		

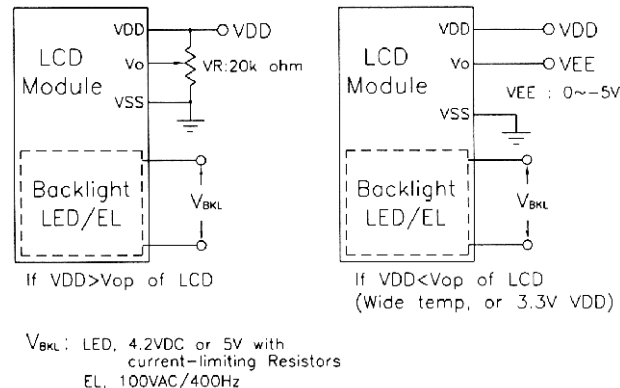
INTERFACE PIN ASSIGNMENT

Pin No.	Pin Out	Function Description
1~8	DB7~DB0	3-State I/O Data Bus
9	E1	Enable Signal for upper 2 lines
10	R/W	Read/Write Select
11	RS	Data/Instruction Register Select
12	V_o	Power Supply for LCD Panel
13	V_{SS}	Ground
14	V_{DD}	Logic Circuit Power Supply
15	E2	Enable signal for lower 2 lines
16	NC	No Connection

BLOCK DIAGRAM



POWER SUPPLY



MECHANICAL

