

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	Vdd - Vss	-0.3	4.0	V
Supply Voltage(LCD)	Vlcd	-0.3	13.2	V
Input Voltage	Vi	-0.4	Vdd + 0.3	V
Operating Temp.	Topr	-20	70	°C
Storage Temp.	Tstg	-30	80	°C

MECHANICAL DATA

Item	Max.	Unit
Module Size (W X H X T)	85.0 X 69.0 X 2.8	mm
Viewing Area(W X H)	81.0 X 58.5	mm
Dot Pitch(W X H)	0.602 X 0.852	mm
Dot Size(W X H)	0.561 X 0.825	mm
View Angle	12 O'Clock	

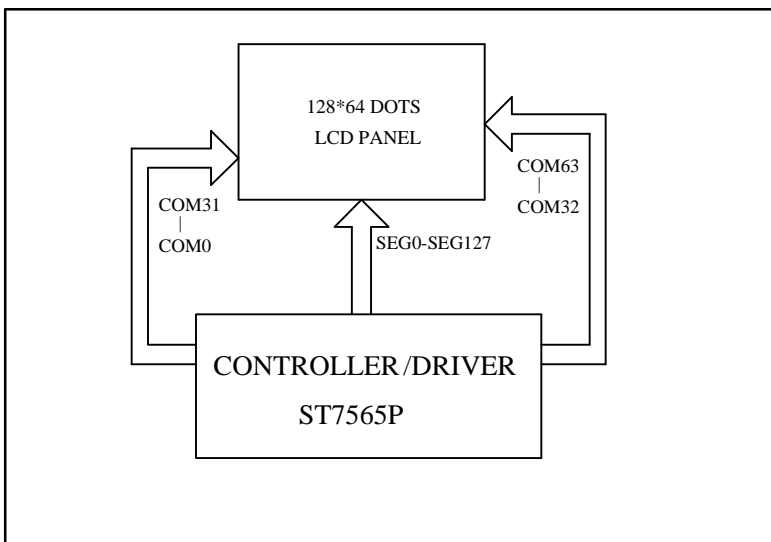
ELECTRICAL CHARACTERISTICS (Vdd=3.0V±0.3V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	Vih	--	0.8Vdd	--	--	V
Input Low Voltage	Vil	--	--	--	0.2Vdd	V
Output High Voltage	Voh	--	0.8Vdd	--	--	V
Output Low Voltage	Vol	--	--	--	0.2Vdd	V
Current consumption	Idd	Vdd=3.0V	--	239	--	µ A
LCD Driving Voltage	V0	Ta=25 °C	--	9.6	--	V

PIN CONNECTIONS

Pin	Symbol	Function	
1	NC	BLANK	
2	/CS	Chip select pin	
3	/RST	Reset signal input	
4	D/C	"L": Control data; "H": Display data	
5	RW_WR	Write Select Signal	
6	E_RD	Read Enable Signal	
7-14	D0-D7	Display Data Signal	
15-16	VDD	Power Supply for Logic(+3.3V)	
17-18	VSS	Ground	
19	VOUT	DC/DC voltage converter.	
20-26	C5+,C3+, C1-,C1+, C2+,C2-, C4+		
27-31	V4-V0		LCD bias set
32	VR		Output voltage regulator terminal.
33	C86		"L": 8080 Series "H": 6800 Series MPU interface
34	P/S	"L": Serial mode "H": Parallel mode	
35	HPMB	"L": High power mode "H": Normal mode	
36	IRS	"L": External resistors "H": Internal resistors	

BLOCK DIAGRAM



LCD Type

LCD Color	Backlight
FSTN/POSITIVE	
TRANSMISSIVE	