

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	VDD	1.65	3.3	V
Supply Voltage(LCD)	VLCD	-0.3	13.2	V
Input Voltage	VDD2/3	2.4	3.3	V
Operating Temp.	Topr	0	50	°C
Storage Temp.	Tstg	-10	60	°C

MECHANICAL DATA

Item	Max.	Unit
Module Size (W X H X T)	49.0 X 55.0 X 2.8	mm
Viewing Area(W X H)	46.0 X 44.5	mm
Dot Pitch(W X H)	0.30 X 0.32	mm
Dot Size(W X H)	0.275 X 0.295	mm
View Angle	6 O'Clock	

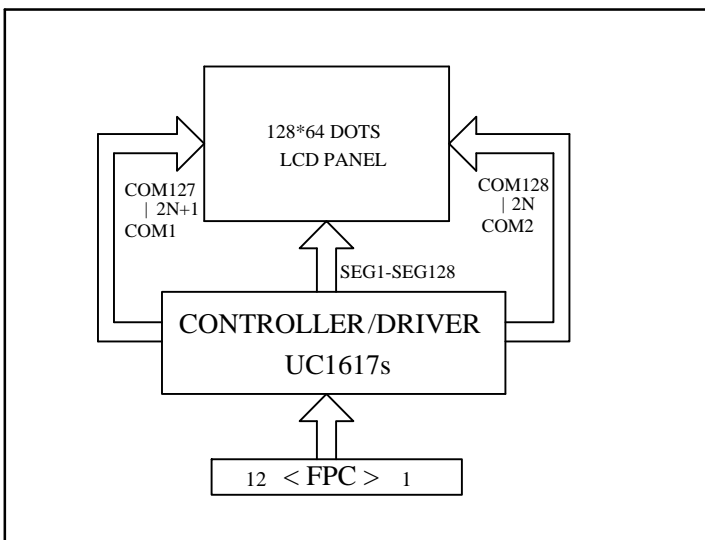
ELECTRICAL CHARACTERISTICS (Vdd=3.0V±0.3V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	Vih	--	0.8VDD	--	VDD	V
Input Low Voltage	Vil	--	VSS	--	0.2VDD	V
Output High Voltage	Voh	--	0.8VDD	--	VDD	V
Output Low Voltage	Vol	--	VSS	--	0.2VDD	V
Current consumption	Idd	Vdd=3.0V	--	239	--	μ A
LCD Driving Voltage	V0	Ta=25 °C	--	13.0	--	V

PIN CONNECTIONS

Pin	Symbol	Function
1	SCK	Serial clock input.
2	SDA	Serial data input.
3	RST	Reset signal input
4	CS	Chip select pin
5	CD	"L": Control data; "H": Display data
6	VSS	Ground
7	VDD	Power Supply Voltage(+3.0V)
8	VB0+	LCD Bias Voltages
9	VB1+	LCD Bias Voltages
10	VB1-	LCD Bias Voltages
11	VB0-	LCD Bias Voltages
12	VLCD	Main LCD Power Supply

BLOCK DIAGRAM



Display Type

LCD	Backlight
FSTN/POSITIVE	
REFLECTIVE	