

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	VDD	2.7	3.6	V
Supply Voltage(LCD)	V0-XV0	-0.3	16.0	V
Input Voltage	V _i	-0.3	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)	35.6 X 40.6 X 4.0	mm
Viewing Area(W X H)	31 X 31	mm
Dot Pitch(W X H)	0.45 X 0.45	mm
Dot Size(W X H)	0.43 X 0.43	mm
View Angle	6 O'Clock	

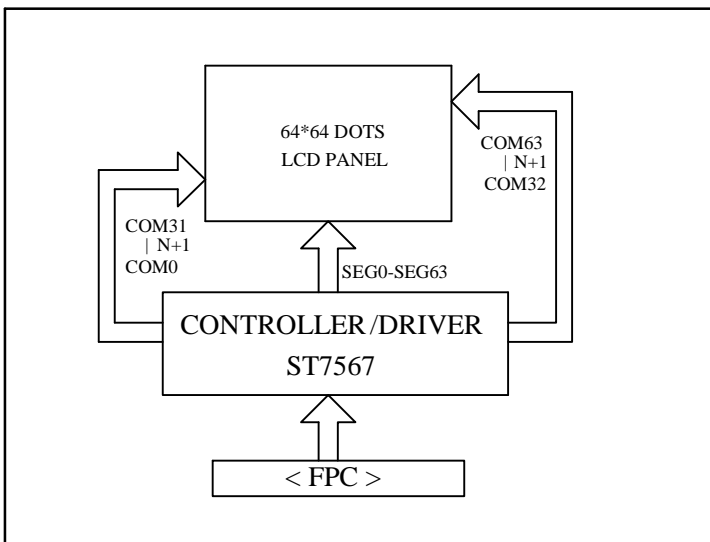
ELECTRICAL CHARACTERISTICS (V_{dd}=3.0V±0.3V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{ih}	--	0.8VDD	--	VDD	V
Input Low Voltage	V _{il}	--	VSS	--	0.2VDD	V
Output High Voltage	V _{oh}	--	0.8VDD	--	VDD	V
Output Low Voltage	V _{ol}	--	VSS	--	0.2VDD	V
Current consumption	I _{dd}	V _{dd} =3.0V	--	135	205	µA
LCD Driving Voltage	V ₀	T _a =25 °C	--	9	--	V

PIN CONNECTIONS

Pin	Symbol	Function
1	VG	LCD driving voltage for segment
2	XV0	LCD driving voltage for common
3	V0	LCD driving voltage for common
4	VSS	Ground
5	VDD	Power Supply Voltage(+3.0V)
6	SDA	Serial data input.
7	SCLK	Serial clock input.
8	A0	"L": Control data "H": Display data
9	REST	Reset signal input
10	CS	Chip select pin
11	BLA	Supply voltage for backlight +3.3V
12	BLK	Supply voltage for backlight Ground

BLOCK DIAGRAM



Display Type

LCD	Backlight
FSTN/Positive	White
Transflective	3.0V 30mA