

**ABSOLUTE MAXIMUM RATINGS**

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	Vdd - Vss	-0.3	3.3	V
Supply Voltage(LCD)	Vlcd	-0.3	13.2	V
Input Voltage	Vi	-0.4	Vdd+0.3	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)	87.0 X 44.5 X 2.8	mm
Viewing Area(W X H)	83 X 34.5	mm
Dot Pitch(W X H)	0.60 X 0.49	mm
Dot Size(W X H)	0.55 X 0.40	mm
View Angle	6 O'Clock	

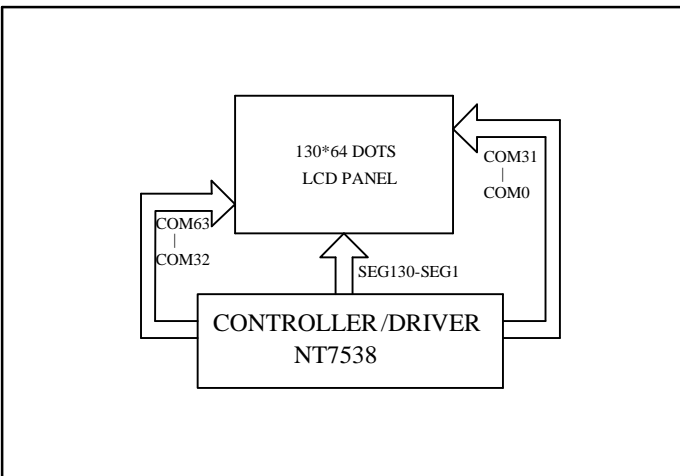
**ELECTRICAL CHARACTERISTICS (Vdd=3.0V±0.3V)**

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	Vih	--	0.8Vdd	--	Vdd	V
Input Low Voltage	Vil	--	--	--	0.2Vdd	V
Output High Voltage	Voh	--	0.8Vdd	--	--	V
Output Low Voltage	Vol	--	--	--	0.2Vdd	V
Current consumption	Idd	Vdd=3.0V	--	--	50	μA
LCD Driving Voltage	V0	Ta=25 °C	--	10.0	--	V

**PIN CONNECTIONS**

Pin	Symbol	Function
1	/CS1	Chip select pin
2	/RES	Reset signal input
3	AO	"L": Control data "H": Display data
4	/WR	Write Select Signal
5	/RD	8080:LOW-active. 6800:HIGH-active.
6~13	D0-D7	Display Data Signal
14	VDD	Power Supply for Logic(+3.0V)
15	VSS	Ground
16	Vout	DC/DC voltage converter.
17	C3+	
18	C1-	
19	C1+	
20	C2+	
21	C2-	LCD bias set
22	V1	
23	V2	
24	V3	
25	V4	
26	V0	
27	VR	
28	C86	the MPU interface selection pin.
29	P/S	parallel mode or serial mode.
30	IRS	

**BLOCK DIAGRAM**



**LCD Type**

LCD Color	Blacklight
STN / Y-G	
TRANSMISSIVE	