

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V <sub>DD</sub> - V <sub>SS</sub>	-0.3	3.6	V
Supply Voltage(LCD)	V <sub>0</sub> -XV <sub>0</sub>	-0.3	16.0	V
Input Voltage	V <sub>I</sub>	-0.3	V <sub>DD</sub> + 0.3	V
Operating Temp.	T <sub>opr</sub>	-20	70	°C
Storage Temp.	T <sub>stg</sub>	-30	80	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size ( W x H x T )	79.3 x 47.8 x 15.15	mm
Viewing Area ( W x H )	72.0 x 36.5	mm
Dot Pitch ( W x H )	0.52 x 0.52	mm
Dot Size ( W x H )	0.50 x 0.50	mm
Weight	Approx. 28	g

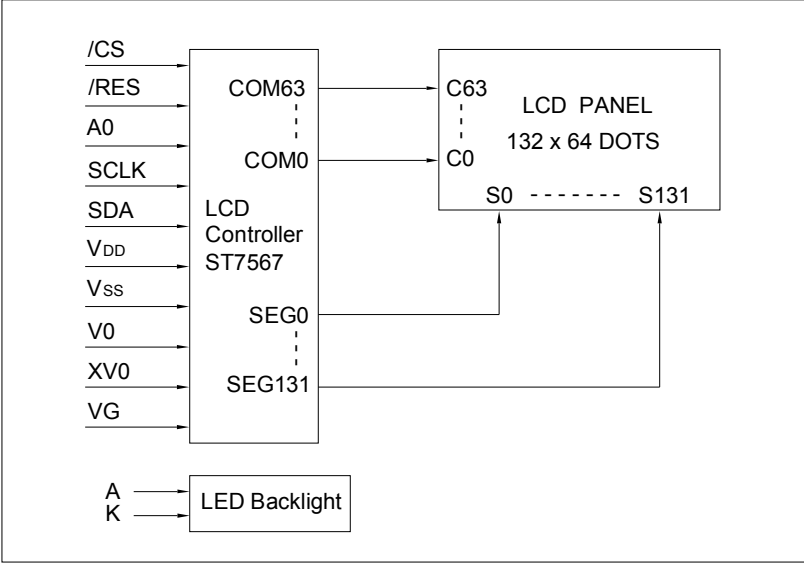
ELECTRICAL CHARACTERISTICS ( V<sub>DD</sub>=3.0V to 3.3V )

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V <sub>IH</sub>	--	0.7V <sub>DD</sub>	--	V <sub>DD</sub>	V
Input Low Voltage	V <sub>IL</sub>	--	0	--	0.3V <sub>DD</sub>	V
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> = 3.3V	--	0.4	0.8	mA
LCD Driving Voltage	V <sub>0</sub> -XV <sub>0</sub>	T <sub>a</sub> =25°C	--	12.0	--	V

PIN CONNECTIONS (CN1/CN2)

Pin	Symbol	Level	Function
1	A	3.1V	LED backlight anode
2	K	0V	LED backlight cathode
3	/CS	L	Chip selection signal. Active "L".
4	/RES	L	Reset signal. Active "L".
5	A0	H/L	A0="H": Display data A0="L": Instruction code
6	SCLK	H/L	Serial colck input
7	SDA	H/L	Serial data input
8	V <sub>DD</sub>	3V-3.3V	Power supply for logic
9	V <sub>SS</sub>	0V	GND
10	V <sub>0</sub>	--	LCD driving voltage. Connect a 1uF/25V capacitor between V <sub>0</sub> and XV <sub>0</sub> .
11	XV <sub>0</sub>	--	
12	VG	--	LCD driving voltage. Connect a 1uF/25V capacitor between VG and V <sub>ss</sub> .

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS (T<sub>a</sub>=25° C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V <sub>f</sub>	3.1	3.2	V
Forward Current	I <sub>f</sub>	60	--	mA
LED Color		White		