



AG128240 ##63C

2 4 0 X 1 2 8 Dots 1 / 1 2 8 D U T Y

ELECTRICAL CHARACTERISTICS

T_a = 25°C V_{DD} = 5.0 ± 0.25 v

Input "High" Voltage (V_{IH})

2.2 V min

Input "Low" Voltage (V_{IL})

0.8 V max

Supply Current, (I_{DD}) Typ., mA

<u>STN</u>	
<u>TEMPERATURE</u>	
<u>NORM</u>	<u>WIDE</u>
30	30
7	7
-19	-20
N/A	24.3
21.0	21.0
18.5	18.5
16.8	16.8
N/A	15.7

Supply Current, (I_{EE}) Typ., mA

7

Supply Voltage, (V_{EE}) Typ., V

-19

Recommend LCD drive Voltage:

(V_{DD}-V_O) at T_a = -20°C, Volts

N/A

T_a = 0°C

21.0

T_a = 25°C

18.5

T_a = 50°C

16.8

T_a = 70°C

N/A

ABSOLUTE MAXIMUM RATINGS

	<u>NORMAL</u>		<u>WIDE</u>	
	<u>TEMPERATURE</u>	<u>TEMPERATURE</u>	<u>TEMPERATURE</u>	<u>TEMPERATURE</u>
	<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>
Input Voltage (V _I) V	0	V _{DD}	0	V _{DD}
Supply for Logic (V _{DD} -V _{SS}) V	0	7	0	7
Supply for LCD (V _{DD} -V _O) V	0	25	0	25
Operating Temperature T _{OP} °C	0	+50	-20	+70
Storage Temperature T _{ST} °C	-20	+70	-30	+80

OPTION

BACKLIGHT

EL

LED SMT

CCFT

INPUT VOLTAGE & CURRENT

100 VRMS (400-800) Hz; 21.0mA

+ 5V DC; 660 mA R₂ = 1 Ohm 1 W

235 VRMS 5.0 mA

*R₂: Suggest BL current limit resistor on customer board

SINGLE +5V OPERATION

-- V_{EE} self-generate --

TEMPERATURE COMPENSATION

V_{DD}-V_O self-generate & compensated

TOUCH-SCREEN optional available.

Date: 06/29/94