

# DATA VISION

## DG-24128-01WNCW

- 。 240 x 128 dots
- 。 STN /B&W Reflective/CCFL Backlight
- 。 1/128 Duty

### DIEMENSIONAL DATA



Item	Measurement (W)x(H)x(T)	Unit
Module Dimension	170.0 x 103.2 x 14.0 Max.	mm
Viewing Area	129.0 x 75.0	mm
Dot Pitch	0.50 x 0.50	mm
Dot Size	0.47 x 0.47	mm
Weight	170	g
Controller/Driver	T6963C	

### ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Condition	Min.	Max.	Unit
Supply Voltage (Logic)	$V_{DD} - V_{SS}$		0	7.0	V
Supply Voltage(LCD)	$V_{DD} - V_o$		0	28.0	V
Input Voltage	$V_i$	$T_a = 25^{\circ}C$	$V_{SS}$	$V_{DD}$	V
Operating Temp.	$T_{opr}$		0	50	$^{\circ}C$
Storage Temp.	$T_{stg}$		-20	70	$^{\circ}C$

### ELECTRICAL CHARACTERISTIC

Item	Symbol	Condition	Value			Unit
			Min.	Typ.	Max.	
Supply Voltage (Logic)	$V_{DD}-V_{SS}$	--	4.5	5.0	5.5	V
Supply Voltage (LCD)	$V_{DD}-V_o$	--	16.6	17.3	18.0	V
Supply Current	$I_{DD}$	$V_{DD}-V_{SS}=5V$	--	14.0	20.0	mA
	$I_{EE}$		--	6.0	8.0	mA

Input Voltage "H" Level	$V_{IH}$	High Level	$0.7V_{DD}$	--	$V_{DD}$	V
Input Voltage "L" Level	$V_{IL}$	Low Level	0	--	$0.3V_{DD}$	V
Frame Frequency	$F_f$	$T_a = 25^\circ \text{C}$	--	70	--	Hz
Viewing Angle	$\theta_1 - \theta_2$	$T_a = 25^\circ \text{C}$	50	--	--	Deg.
	$\phi_1, \phi_2$	$CR \geq 3$	-40	--	40	
Power Supply Current for CCFL B/L		310 Vrms, 55KHz	--	5	--	Arms

## PIN ASSIGNMENT

Pin	Symbol	Level	Function
1	FGND	--	Frame Ground(Connect to Bezel)
2	$V_{SS}$	L	Ground (0V)
3	$V_{DD}$	H	+5V
4	$V_o$	--	Power Supply Input for LCD
5	/WR	H/L	Data Write
6	/RD	H/L	Data Read
7	/CE	H/L	Chip Enable
8	C/D	H/L	Code/Data
9	NC	--	No Connection
10	/RST	L	Reset, Active LOW
11	DB0	H/L	Data Bus Line
12	DB1	H/L	
13	DB2	H/L	
14	DB3	H/L	
15	DB4	H/L	
16	DB5	H/L	
17	DB6	H/L	
18	DB7	H/L	
19	FS	--	Font Select, <b>L</b> =8 x 8, <b>H</b> =6 x 8
20	RV	--	Reverse Data

# OUTLINE DIMENSION

