

# DG-24128-01 240 x 128dots 1/128 Duty STN/B&W CCFL Backlight

MECHANICAL DATA		
Item	Dimension	Unit
Module Size	170.0(W) x 103.2(H) x 14.0(T)	mm
View Area	129.0(W) x 75.0(H)	mm
Dot Size	0.47 x 0.47	mm
Dot Pitch	0.5 x 0.5	mm

ABSOLUTELY MAXIMUM RATINGS					
Item	Symbol	Standard Value			Unit
		Min	Typ.	Max.	
Supply Voltage for Logic	V <sub>DD</sub> -V <sub>SS</sub>	0	--	7.0	V
Supply Voltage for LCD Drive	V <sub>DD</sub> -V <sub>EE</sub>	0	--	28.0	V
Input Voltage	V <sub>I</sub>	V <sub>SS</sub>	--	V <sub>DD</sub>	V

ELECTRICAL CHARACTERISTICS						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Logic circuit Power	V <sub>DD</sub> -V <sub>SS</sub>	--	4.5	5.0	5.5	V
Supply Voltage	V <sub>DD</sub> -V <sub>EE</sub>	25°C	16.6	17.3	18.0	V
LCD Driver Circuit Power	V <sub>DD</sub> -V <sub>EE</sub>	25°C	16.6	17.3	18.0	V
Supply Voltage	V <sub>DD</sub> -V <sub>EE</sub>	25°C	16.6	17.3	18.0	V
Input Voltage	V <sub>IH</sub>	Note (1)	0.7xV <sub>DD</sub>	--	V <sub>DD</sub>	V
Input Voltage	V <sub>IL</sub>	Note (1)	0	--	0.3xV <sub>DD</sub>	V
Output voltage	V <sub>OH</sub>					V
Output Voltage	V <sub>OL</sub>					V
Input Leakage Current	I <sub>I</sub>					μA
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> =5.0V	--	14	20.0	mA
EL Backlite Current	I <sub>EE</sub>	V <sub>EE</sub> =-13.0V	--	6	8	mA

PIN FUNCTIONS			
Pin No.	Symbol	Level	Function
1	FGND		Frame Ground
2	V <sub>SS</sub>		Ground Potential (Logic)
3	V <sub>DD</sub>		Power Supply for Logic & LCD (+)
4	V <sub>EE</sub>		Power Supply for LCD (-)
5	WR		Data Write
6	RD		Data Read
7	CE		Chip Enable
8	C/D		Code / Data
9	NC		No Connection
10	/RESET		Controller Reset
11-18	DB0-DB7		Data Bus Line
19	FS		Front Select
20	RV		Reverse Data in

