

# 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	$V_{DD}-V_{SS}$	0	--	7.0	V
Supply Voltage for LCD Drive	$V_{DD}-V_{EE}$	0	--	28.0	V
Input Voltage	$V_I$	$V_{SS}$	--	$V_{DD}$	V

ELECTRICAL CHARACTERISTICS						
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Logic circuit Power Supply Voltage	$V_{DD}-V_{SS}$	--	4.5	5.0	5.5	V
LCD Driver Circuit Power Supply Voltage	$V_{DD}-V_{EE}$	25°C	16.6	17.3	18.0	V
Input Voltage	$V_{IH}$	Note (1)	$0.7 \times V_{DD}$	--	$V_{DD}$	V
Input Voltage	$V_{IL}$	Note (1)	0	--	$0.3 \times V_{DD}$	V
Output Voltage	$V_{OH}$					V
Output Voltage	$V_{OL}$					V
Input Leakage Current	$I_U$					$\mu A$
Supply Current	$I_{DD}$	$V_{DD}=5.0V$	--	14	20.0	mA
EL Backlite Current	$I_{EE}$	$V_{EE}=-13.0V$	--	6	8	mA

PIN FUNCTIONS			
Pin No.	Symbol	Level	Function
1	FGND		Frame Ground
2	$V_{SS}$		Ground Potential (Logic)
3	$V_{DD}$		Power Supply for Logic & LCD (+)
4	$V_{EE}$		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

