

## DG-24128-01

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

MECHANICAL DATA		
Item	Dimension	Unit
Module Size	170.0(W) x103.2(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	0.5x 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

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		Clip 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

<b>ELECTRICAL CHARACTERISTICS</b>						
<b>Item</b>	<b>Symbol</b>	<b>Condition</b>	<b>Min.</b>	<b>Type</b>	<b>Max.</b>	<b>Unit</b>
Logic Driver 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	$V_{IH}$	Notes(1)	$0.7 \times V_{DD}$	--	$V_{DD}$	V
Input Voltage	$V_{IL}$	Notes(1)	0	--	$0.3 \times V_{DD}$	V
Output Voltage	$V_{OH}$					V
Output Voltage	$V_{OL}$					V
Input Leakage Current	$I_U$					μA
Supply Current	$I_{DD}$	$V_{DD}=0.5V$	--	14	20.0	mA
EL Backlite Current	$I_{EE}$	$V_{DD}=-13.0V$	--	6	8	mA