DG-16080

* 160 x 80 dots
* STN Reflective/EL/LED Backlight
* 1/80 Duty,

MECHANICAL DATA		
Item	Dimension	Unit
Module Size	100.0(W) x54.0(H) x 11.0(T)	mm
View Area	72.3(W) x 37.8(H)	mm
Dot Size	0.39 x 0.39	mm
Dot Pitch	0.42x 0.42	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	--	19.0	V
Input Voltage	V_I	V_{SS}	--	V_{DD}	V

PIN FUNCTIONS			
Pin No.	**Symbol**	**Level**	**Function**
1	V_{ss}		Ground
2	V_{DD}		Power Supply For Logic Circuit
3	V_0		Power Supply For LCD
4	RS	H/L	H→Instruction L→Data
5	R/W	H/L	H:Data Read, L:Data Write
6	E	H/L	Enable
7~14	DB0~DB7	H/L	Data Bus Line
15	CS	L	Chip Enable Active "L"
16	R_{ES}	L	Reset Active "L"
17	R_{EE}		Negative Voltage Output(-10V)
18	Dis off	H	
19	+ LED		Hintergrund
20	- LED		Hintergrundbeleuchtung

ELECTRICAL CHARACTERISTICS				
Item	Symbol	Condition	Specification	Unit
Logic circuit Power Supply Voltage	V_{DD}	--	4.75 →5.5	V
	V_0	--	-5.0 →20.0	V
EL Drive Voltage	V_{EL}	fEL=500HZ	90 →110	V
Hight Level Output Voltage	VIH	$V_{DD=5}\pm_{0.25V}$	(0.7→ 1.0) x V_{DD}	V
Low Level Output Voltage	V_{IL}	$V_{DD=5}\pm_{0.25V}$	(0→ 0.3) x V_{DD}	V
Hight Level Output Voltage	V_{OH}	$V_{DD=5}\pm_{0.25V}$	2.4→ VDD	V
Low Level Output Voltage	I_{OL}	$V_{DD=5}\pm_{0.25V}$	0→0.4	V
Current Consumption	I_{DD}	$V_{DD=5V}$	15.0MAX	mA
	I_{EE}	$V_{EE=--10V}$	4.0MAX	mA
	I_{EL}	$V_{EL=110V}$ fEL=500HZ	20.0(AC)MAX	mA