

DG series

DG-24064-2 240 X 64 Dots

Mechanical Data

Item	Standard Value	Unit
Module Size	180.0(W) x 65.0(H) x 10.0(T)	mm
Viewing Area	132.0(W) x 39.0 (H)	mm
Dot Pixels	240 x 64	dots
Dot Size	0.49 x 0.49	mm
Dot Pitch	0.53 x 0.53	mm

Absolute Maximum Ratings

Item	Symbol	Standard Value			Unit
		Min.	Typ.	Max.	
Supply Voltage for Logic	$V_{dd}-V_{ss}$	-0.3	--	7.0	V
Supply Voltage for LCD Drive	$V_{dd}-V_{ee}$	-0.3	--	28.0	V
Input Voltage	V_I	-0.3	--	$V_{dd}+0.3$	V
Operation Temperature	T_{opr}	0	--	50	°C
Storage Temperature	T_{stg}	-20	--	60	°C

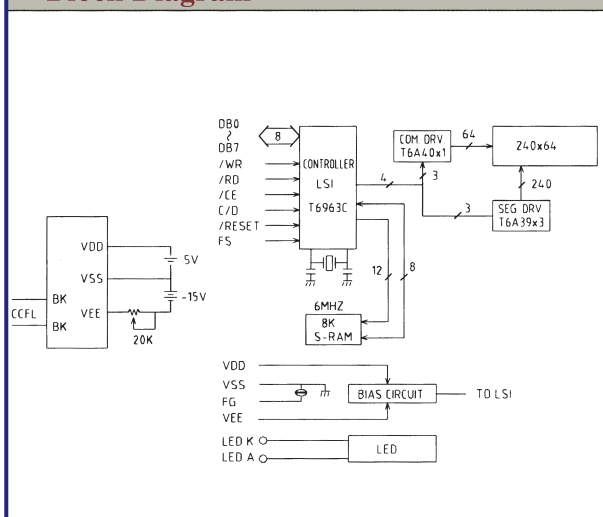
Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			Min.	Typ.	Max.	
Supply Voltage (Logic)	$V_{dd}-V_{ss}$	--	4.5	5.0	5.5	V
Supply Voltage (LCD Drive)	$V_{dd}-V_{ee}$	--	8.0	--	26.0	V
Input Voltage	V_{IH}	High Level	$V_{DD}-2.2$	--	V_{DD}	V
Input Voltage	V_{IL}	Low Level	0	--	$0.8 \times V_{DD}$	V
Supply Voltage for LCD Drive 1/64 duty	$V_{dd}-V_{ee}$	$T_a=25^\circ\text{C}$	11.9	12.6	13.2	V
Supply current	I_{DD}	$V_{DD} = 5V$	--	--	5.0	mA
	I_{EE}	$V_{EE} = 15V$	--	--	13.0	
Power consumption		$V_{DD} = 5V$ $V_{EE} = 15V$	--	75	95	mA

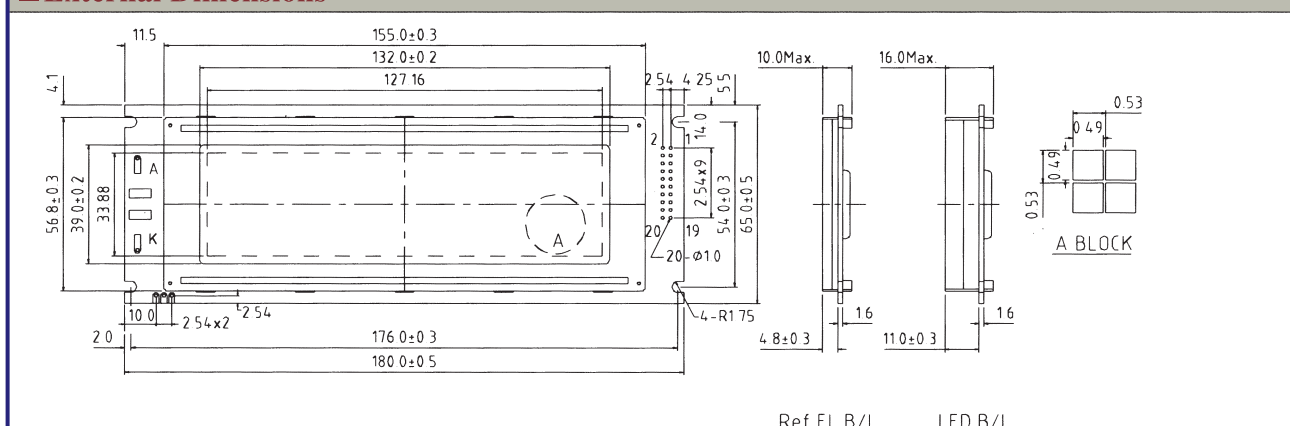
Pin Assignment

No.	Symbol	Level	Function
1.	FGND		Frame ground (connected to bezel)
2.	V_{SS}		Power supply (0V, GND)
3.	V_{DD}		Power supply for Logic
4.	V_{EE}		Power supply for LCD drive
5.	WR	input	Data write
6.	RD	input	Data read
7.	CE	input	Chip enable
8.	C/D	Input	Code/data
9.	NC	--	No connection
10.	RESET	input	Reset Signal (L Reset)
11-18	DB0-DB7	I/O	Data bus line
19	FS	Input	Font select
20	NC	--	No connection

Block Diagram



External Dimensions



Option

LCD Type								Backlight Type			Built-in Control LSI		
S1	S2	W	N	R	F	M	H	EL	LED	CCFL	Touch Panel		
•	•	•	•	•	•	•	•	•	•	•		T-6963C	

Remarks: S1 : yellow-green STN LCD , S2 : gray STN LCD, W : black & white LCD, N : negative type LCD, R : reflective type LCD, F : transfective type LCD, M : transmissive type LCD, H : extended temperature type LCD (-20°C ~ 70°C)