



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	FG	-	Frame ground
2	V _{SS}	0V	Ground
3	V _{DD}	+5V	Power supply for logic
4	V ₀	-	Operating voltage for LCD
5	/WR	L	Write signal
6	/RD	L	Read signal
7	/CE	L	Chip enable signal
8	C/D	H/L	"L" Data, "H" Instruction code
9	NC	-	No connection
10	/RST	H/L	Reset signal ,active "L"
11 18	DB0 DB7	H/L	Data bus line
19	FS	H/L	Font selection: L:8x8,H:6X8
20	V _{OUT}	-	Out voltage for LCD
21	LEDA	+5V	Power supply for LED backlight
22	LEDK	0V	

NOTES:

1. Built-in T6963C controller
2. 5V/3.3V power supply optional
3. Temperature compensation optional
4. Compatible with. VARITRONIX MGLS24064

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H X T)	180.0X65.0X14.6	mm
Viewing Area (W x H)	132.0X39.0	mm
Dot Pitch (W x H)	0.53 X0.53	mm
Dot Size (W x H)	0.49X0.49	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	7	V
Supply Voltage (LCD)	V _{DD} -V ₀	0	19.5	V
Input Voltage	V _I	0	V _{DD}	V
Operating Temp.	T _{OPR}	-20	+70	
Storage Temp.	T _{STG}	-30	+80	

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, T_a=25)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	V _{DD} -2.2	-	V _{DD}	V
Input Low Voltage	V _{IL}	0	-	0.8	V
Output High Voltage	V _{OH}	V _{DD} -0.3	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.3	V
Supply Current	I _{DD}	-	15	25	mA
LCD Driving Voltage	V _{DD} -V ₀	-	12	-	V

LED BACKLIGHT SPECIFICATIONS (T_a=25)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	630mA
WHITE	3.1V	150mA