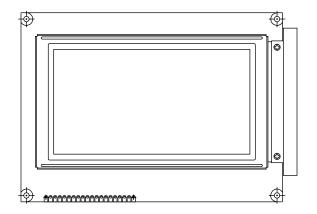




240 x 128 Graphic LCD



FEATURES

• Type: Graphic

Display format: 240 x 128 dotsBuilt-in controller: Toshiba T6963C

Duty cycle: 1/128Built-in N.V.

• Temperature compensation optional

• Compliant to RoHS directive 2002/95/EC



/EC		

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	144.0 x 104.0				
Viewing Area	114.0 x 64.0				
Dot Size	0.40 x 0.40	mm			
Dot Pitch	0.45 x 0.45] '''''			
Mounting Hole	138.0 x 99.0				
Character Size	N/a				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL STANDARD VALU		ALUE	UNIT		
IIEW	STWIDOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V _{DD} to V _{SS}	4.75	5.0	5.25	V	
Input Voltage	VI	- 0.3	-	V_{DD}	ľ	

Note

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

ELECTRICAL CHARACTERISTICS							
1754	OVARDOL	CONDITION	STANDARD VALUE				
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V _{DD}	L level	0.7 V _{DD}	=	V _{DD}	V I	
Input voltage	V _{IO}	H level	-	-	0.3 V _{DD}		
Supply Current	I _{DD}	$V_{DD} = + 5 V$	0	55	60	mA	
		- 20 °C	-	=	-		
Recommended LC Driving	V_{DD} to V_0	0 °C	20.3	21.4	22.5		
Voltage for Normal Temperature Version Module		25 °C	18.0	19.1	20.2	V	
		50 °C	17.8	18.9	20.0		
		70 °C	-	-	-	1	
LED Forward Voltage	V _F	25 °C	-	4.2	-	V	
LED Forward Current	I _F	25 °C	-	900	1800	mA	
CCFL Forward Voltage	V _F	25 °C	-	250	590	V_{RMS}	
CCFL Forward Current	I _F	25 °C	-	-	5.5	mA _{RMS}	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

OPTION	OPTIONS								
		PROCES	SCOLOR				BACK	LIGHT	
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	x	х	х	x		x	x	х	Х

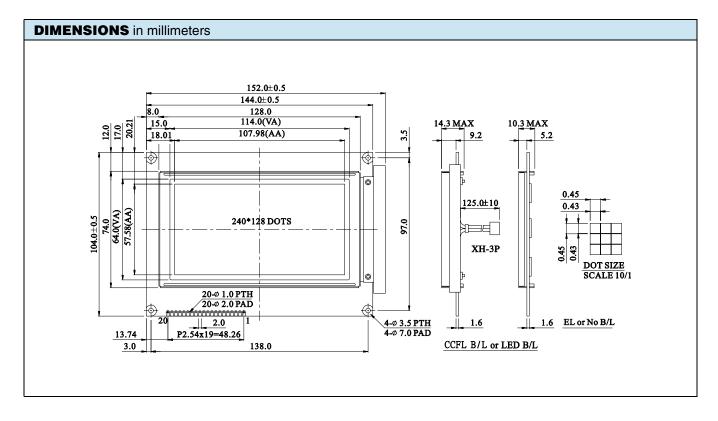
For detailed information, please see the "Product Numbering System" document.

Document Number: 37377 Revision: 17-Apr-09

240 x 128 Graphic LCD



INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Power supply (Ground)			
2	V _{DD}	Power supply (+ 5 V)			
3	V ₀	Power supply for LCD driving			
4	C/D	Command/data read/write			
5	RD	Data read			
6	WR	Data write			
7	DB0	Data bus line			
8	DB1	Data bus line			
9	DB2	Data bus line			
10	DB3	Data bus line			
11	DB4	Data bus line			
12	DB5	Data bus line			
13	DB6	Data bus line			
14	DB7	Data bus line			
15	CE	Chip enable			
16	RESET	Reset signal			
17	V _{EE}	Negative voltage output			
18	MD2	Control signal			
19	FS1	Font selection			
20	NC	No connection			





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