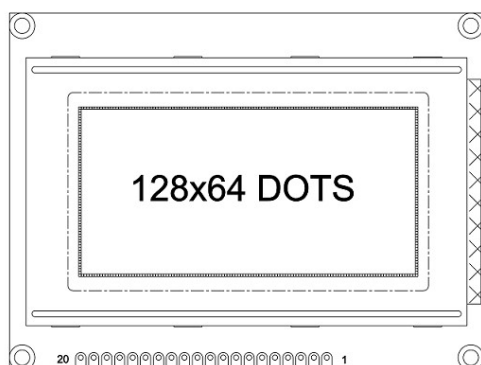


128 x 64 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 128 x 64 dots
- Controller IC: AIP31108U (or equivalent)
- Duty cycle: 1/64
- +3.3V power supply

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	93.00 x 70.00	mm
Viewing Area	70.70 x 38.80	
Active Area	66.52 x 33.24	
Dot Size	0.48 x 0.48	
Dot Pitch	0.52 x 0.52	
Height	12.5	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VDD - VSS	0	-	3.5	V
Input Voltage	V _{in}	0	-	VDD	

Note:

- VSS=0 V , VDD=3.3V

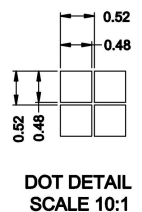
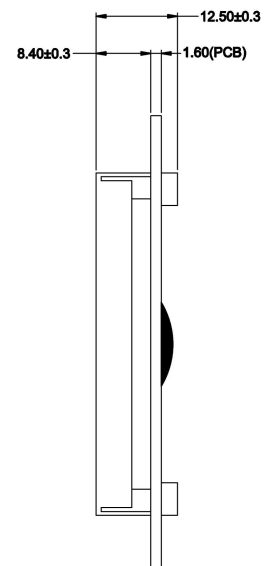
ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN	TYP	MAX	
Supply voltage for LCD	VDD-V0	Ta =25°C	10.3	10.5	10.7	V
Input voltage	VDD		3.0	3.3	3.5	
Supply current	IDD	Ta=25°C, VDD=3.3V	1.3	2.3	3.7	mA
LED Forward Voltage	V _f	Ta =25°C	3.0	3.3	3.5	V
LED Forward current-Edge	I _f		60	80	100	mA

Options									
PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	√	√	√	√		√	√	√	

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

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	GND	Ground
2	VDD	Power supply (+3.3V)
3	V0	Contrast adjustment
4	RS	H/L Register select signal
5	RW	H/L Read/write signal
6	E	H→L enable signal

7	DB0	H/L data bus line
8	DB1	H/L data bus line
9	DB2	H/L data bus line
10	DB3	H/L data bus line
11	DB4	H/L data bus line
12	DB5	H/L data bus line
13	DB6	H/L data bus line
14	DB7	H/L data bus line
15	CS1	Chip select signal for IC1
16	CS2	Chip select signal for IC2
17	RESET	Reset Signal
18	VOUT	Negative voltage output
19	LED+	Power supply for BKL
20	LED-	Power supply for BKL

[illegible]

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