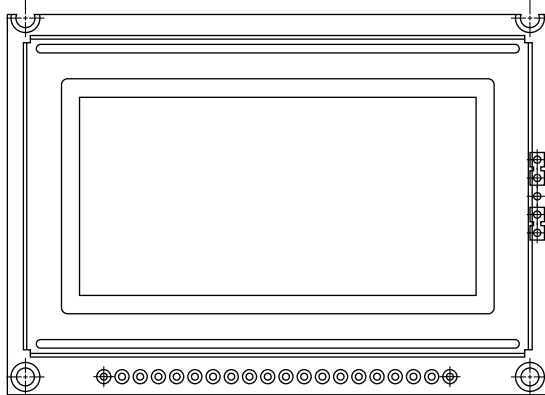


128 x 64 Graphic LCD



FEATURES

- Type: graphic
- Display format: 128 x 64 dots
- Built-in controller: NT 7107, NT 7108
- Duty cycle: 1/64
- +5 V power supply
- N.V. built-in
- LCD-128H064S: Chinese character version
- LCD-128H064BP1: +3.3 V option
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


RoHS
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module dimension	75.0 x 52.7	mm
Viewing area	60.0 x 32.6	
Dot size	0.39 x 0.39	
Dot pitch	0.43 x 0.43	
Mounting hole	70.0 x 49.7	
Character size	n/a	

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V
Input voltage	V_I	-0.3	-	V_{DD}	

Note

- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

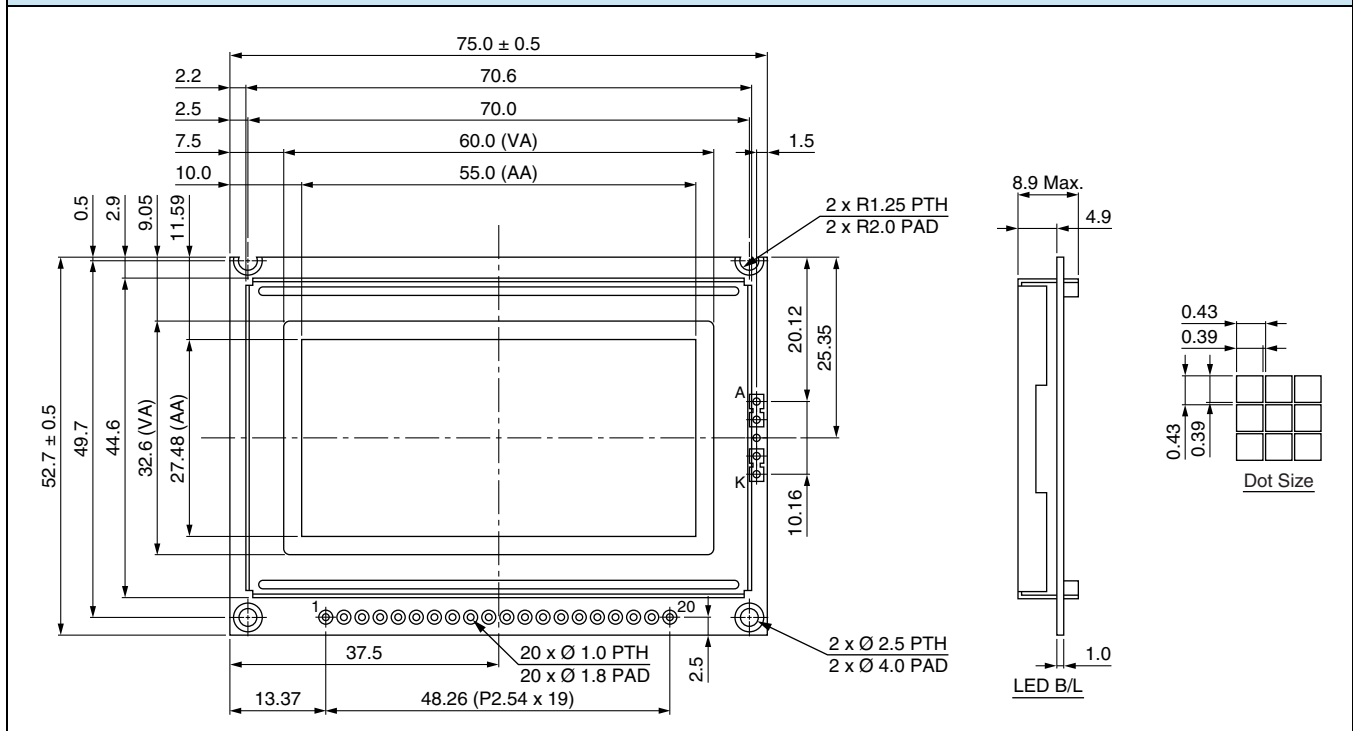
ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input voltage	V_{DD}	L level	$0.7 V_{DD}$	-	V_{DD}	V
	V_{IO}	H level	0	-	$0.3 V_{DD}$	
Supply current	I_{DD}	$V_{DD} = +5$ V	-	4.0	5.2	mA
Recommended LC driving voltage for normal temperature version module	V_{DD} to V_0	-20 °C	9.9	10.4	10.9	V
		0 °C	9.7	10.2	10.7	
		25 °C	7.5	8.0	8.5	
		50 °C	8.6	9.1	9.6	
		70 °C	8.4	8.9	9.4	
LED forward voltage	V_F	25 °C	-	4.2	4.6	V
LED forward current - edge	I_F	25 °C	-	100	150	mA
EL power supply current	I_{EL}	$V_{EL} = 110 V_{AC}$, 400 Hz	-	-	5.0	mA

OPTIONS									
PROCESS COLOR						BACKLIGHT			
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
-	x	x	x	x	-	x	x	x	-

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

INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	FUNCTION
1	V _{DD}	Power supply (+5 V)
2	GND	Power supply (ground)
3	V ₀	Contrast adjustment
4	DB0	Data bus line
5	DB1	Data bus line
6	DB2	Data bus line
7	DB3	Data bus line
8	DB4	Data bus line
9	DB5	Data bus line
10	DB6	Data bus line
11	DB7	Data bus line
12	CS1	Chip select for IC1
13	CS2	Chip select for IC2
14	RST	Reset signal
15	R / \bar{W}	Data read / write
16	D / I	Data / instruction
17	E	Enable signal
18	V _{EE}	Negative voltage output
19	A	Power supply for LED (+4.2 V)
20	K	Power supply for LED (0 V)

DIMENSIONS in millimeters




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