OLED-100H016F



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Vishay

RoHS

COMPLIANT

100 x 16 Graphic OLED

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- Type: Graphic
- Display format: 100 x 16 dots
- Built-in controller: OLED-0010
- Duty cycle: 1/16
- +5 V power supply, +3 V optional
- Interface: 6800, option 8080 and SPI
- Sunlight readable and polarizer optional
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

| MECHANICAL DATA | | | | | |
|------------------|---------------------------|------|--|--|--|
| ITEM | STANDARD VALUE | UNIT | | | |
| Module dimension | 116.0 x 37.0 x 9.8 (max.) | | | | |
| Viewing area | 85.0 x 18.6 | | | | |
| Active area | 64.95 x 11.15 | mm | | | |
| Dot size | 0.60 x 0.65 | | | | |
| Dot pitch | 0.65 x 0.70 | | | | |
| Mounting hole | 108.0 x 29.0 | | | | |

| ABSOLUTE MAXIMUM RATINGS | | | | | | |
|-----------------------------|------------------------------------|---------|----------|------|--|--|
| ITEM | SYMBOL | STANDAF | | | | |
| | STMBOL | MIN. | MAX. | UNIT | | |
| Supply voltage for logic | V_{DD} to V_{SS} | -0.3 | 5.3 | V | | |
| Input voltage | VI | -0.3 | V_{DD} | | | |

Note

• $V_{SS} = 0 V$, $V_{DD} = 3.0 V/5.0 V$

| ELECTRICAL CHARACTERISTICS | | | | | | |
|----------------------------|----------------------|--------------------------|---------------------|------|---------------------|------|
| ITEM | SYMBOL | CONDITION | STANDARD VALUE | | | |
| | STMBOL | CONDITION | MIN. | TYP. | MAX. | UNIT |
| Supply voltage for logic | V_{DD} to V_{SS} | - | 3.0 | 5.0 | 5.3 | V |
| Input high voltage | V _{IH} | - | 0.9 V _{DD} | - | V _{DD} | V |
| Input low voltage | V _{IL} | - | GND | - | 0.1 V _{DD} | V |
| Output high voltage | V _{OH} | I _{OH} = 0.5 mA | 0.8 V _{DD} | - | V _{DD} | V |
| Output low voltage | V _{OL} | I _{OL} = 0.5 mA | GND | - | 0.2 V _{DD} | V |
| Supply current | I _{DD} | $V_{DD} = 5 V$ | - | 35 | - | mA |

| OPTION | S | | | | | | | | |
|----------------|-------|-----|------|-------|--------|-------|-----|------|-------|
| EMITTING COLOR | | | | MOQ | | | | | |
| YELLOW | GREEN | RED | BLUE | WHITE | YELLOW | GREEN | RED | BLUE | WHITE |
| Y | Y | Y | Y | Y | Ν | Ν | Ν | Ν | Ν |

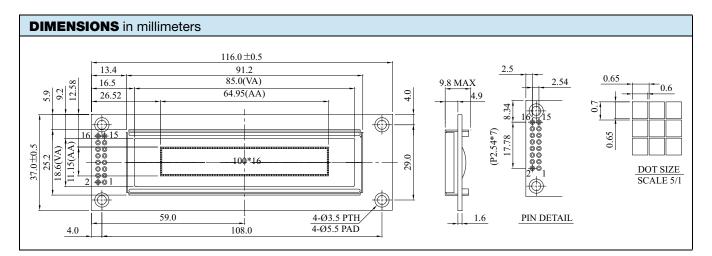
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| INTERFACE PIN FUNCTION | | | | | |
|------------------------|-----------------|--|--|--|--|
| PIN NO. | SYMBOL | FUNCTION | | | |
| 1 | V _{DD} | Supply voltage for logic | | | |
| 2 | V _{SS} | Ground | | | |
| 3 | NC | No connection | | | |
| 4 | RS | H: Data; L: Instruction code | | | |
| 5 | R/W | H: Read (MPU \leftarrow Module); L: Write (MPU \rightarrow Module) | | | |
| 6 | E | $H \rightarrow L$ enable signal | | | |
| 7 | DB0 | Data bit 0 | | | |
| 8 | DB1 | Data bit 1 | | | |
| 9 | DB2 | Data bit 2 | | | |
| 10 | DB3 | Data bit 3 | | | |
| 11 | DB4 | Data bit 4 | | | |
| 12 | DB5 | Data bit 5 | | | |
| 13 | DB6 | Data bit 6 | | | |
| 14 | DB7 | Data bit 7 | | | |



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