

Phoenix Display International, Inc.

PRODUCT PREVIEW

320x 240 Monochrome

TN/STN

Graphics
Liquid Crystal Display

SPECIFICATIONS

MODULE

| | |
|------------------|---------------------------|
| Part Number | PDI320240BX-TFH-VZ |
| Display Format | 320 x 240 Graphic Display |
| Module Size | 160.0 x 109.0 x 13.0 |
| Diagonal | 5.70 |
| Active Area | 115.2 x 86.4 |
| Pixel Pitch | 0.360 x 0.360 |
| Backlight System | LED |
| Display Type | R,TF,TM |
| Glass Type | STN, FSTN |

1.0 DIMENSIONAL DRAWING



3.0 ELECTRICAL CHARACTERISTICS

Standard Value

| Item | Symbol | Condition (degrees C) | min. | typ. | max. | Unit |
|---|--------|-----------------------|------|------|------|------|
| Input Voltage | VDD | --- | 4.75 | 5 | 5.25 | V |
| Supply Current | IDD | VDD=5V | 654 | 75 | 85 | mA |
| <small>Recommended LC Driving Voltage for Normal Temp. Version Module</small> | VDD-V0 | -20 | --- | --- | 26.1 | V |
| <small>Recommended LC Driving Voltage for Normal Temp. Version Module</small> | VDD-V0 | 25 | --- | 23.8 | --- | V |
| <small>Recommended LC Driving Voltage for Normal Temp. Version Module</small> | VDD-V0 | 70 | 22.2 | --- | --- | V |
| CCFL Starting Voltage | VFLS | 25 | --- | 600 | --- | Vrms |
| CCFL Driving Voltage | VFLD | 25 | --- | 270 | --- | Vrms |
| CCFL Driving Current | IFLD | VFQ=450Vms 300KHZ | 4.8 | 5.3 | 5.5 | mAms |
| LED Forward Voltage | VF | 25 | 3.4 | 3.5 | 3.6 | V |
| LED Forward Current | IF | 25 | 140 | 160 | 180 | mA |
| EL Power Supply Current | IEF | VEL=110VAC;400Hz | --- | --- | 5 | mA |

4.0 ABSOLUTE MAXIMUM RATINGS

| Item | Symbol | Standard Value | | | Unit |
|---------------|---------|----------------|------|------|------|
| | | min. | typ. | max. | |
| Power Supply | VDD-VSS | 4.5 | 5 | 5.5 | V |
| Input Voltage | VI | 0 | --- | VDD | V |

5.0 PIN ASSIGNMENT

| Pin No. | Symbol | Pin No. | Symbol |
|---------|--------|---------|--------|
| 1 | VSS | 11 | DB4 |
| 2 | VDD | 12 | DB5 |
| 3 | V0 | 13 | DB6 |
| 4 | A0 | 14 | DB7 |
| 5 | WR | 15 | CS |
| 6 | RD | 16 | RES |
| 7 | DB0 | 17 | VEE |
| 8 | DB1 | 18 | SEL |
| 9 | DB2 | 19 | FG |
| 10 | DB3 | 20 | WAIT |

