

FEATURES

- 320 x 240 spatial resolution (76,800 pixels)
- Ultra-compact 0.24" diagonal
- Active pixel area (4.8 mm x 3.6 mm)
- Simple 3.3-5.0v interface
- Low power consumption
- Integrated horizontal and vertical scanners
- Bi-directional horizontal scanning

BLOCK DIAGRAM

CyberDisplay® 320M

Part Numbers: KCD-QD01-AA, Framed

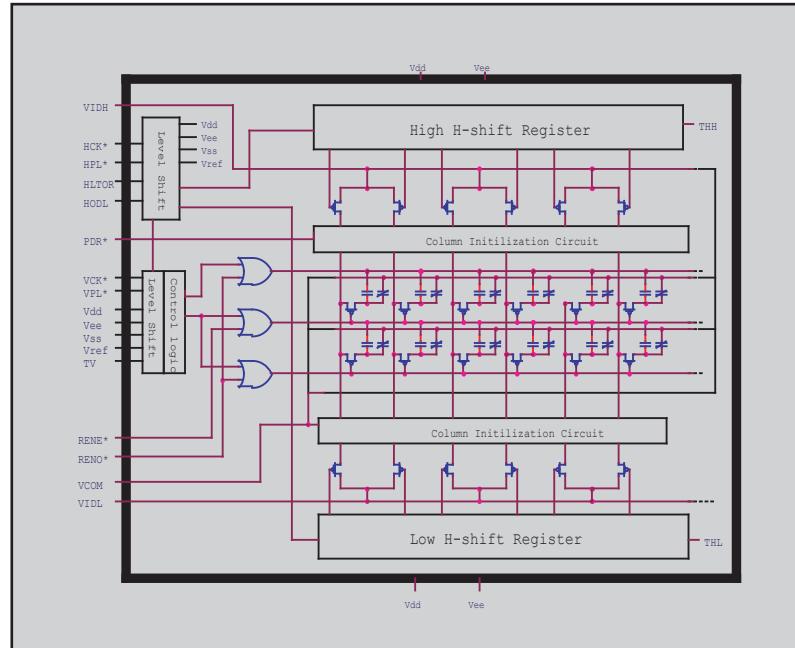


The CyberDisplay® 320M is a monochrome active matrix liquid crystal display. When combined with a high-efficiency CyberLite®LED backlight and a single element lens, it creates a compact viewfinder.

The CyberDisplay 320M with a spatial resolution of 320 x 240, is ideal for a low resolution viewfinder for toys and other applications.

Functional Description

The display is fabricated in a high speed, low power CMOS process utilizing single crystal silicon-on-insulator (SOI) starting material. The display features a simple interface with 3.3- 5.0V digital and analog inputs. Horizontal and vertical scanner circuits are integrated. The display internal logic provides inversion control.



DISPLAY MARKETING

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*specification subject to change without notice
DS:KCD-QD01-AA Rev. 32 6/29/10



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SPECIFICATIONS

TYPICAL	
POWER	
Supply Interface(VDD)	9.0 Volt
Operating Current	1.6 mA
OPERATING ENVIRONMENT	
Temperature	0° to 60 °C
DIMENSIONS	
Height*	6.0 mm
Width*	9.8 mm
Depth*	1.4 mm

*Display die dimension

PIN	SYMBOL	DESCRIPTION
1	THH	Test pin.
2	PDR*	Power Down Reset.
3	VIDH	High(positive polarity) video signal
4	VCK*	Vertical clock, V-shift register
5	VPL*	Vertical start pulse, V-shift register
6	HODL	Horizontal odd low, Asserted high for odd colums to receive low video input
7	HLTOR	Horizontal left to right, . Asserted high for left-to-right scan
8	VCOM	Common Voltage
9	VEE	Supply Voltage-Sink
10	VDD	Supply Voltage-Source
11	Vss	GND
12	VREF	Input level reference voltage
13	HPL*	Horizontal start pulse, H-shift register
14	HCK*	Horizontal clock, H-shift register
15	RENE*	Even rows enable
16	RENO*	Even rows enable
17	VIDL	Low(negative polarity) video signal
18	RSV	Test pin. Must be grounded for proper operation of display
19	THL	Test pin.
20	TV	Test pin.

*Signal is active low