

Re: LCD's

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- *From:* "John Jardine." <john@xxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 31 Jan 2006 06:24:36 -0800
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"Abstract Dissonance" <Abstract.Dissonance@hotmail.com> wrote in message
news:11ttrths853fed5@xxxxxxxxxxxxxxxxxxxxxxxx

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>> AD

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> Anyone know what I'm talking about or am I just not making any sense? ;)

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> Jon

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The rubbery thing is called a 'Zebra strip' and is a (clever) multiway electrical connector.

The Black bits are the conductors. The white bits are insulators. Place the strip over the (nearly transparent) electrodes deposited on the glass and there will always be enough Black bits available to cover any of the LCD electrodes with (at least) one connection point. (Same goes for the PCB connection points)

I've not seen Zebra strip on general sale.

The LCD segments take virtually no power, so static or finger leakage is enough to turn them on.

Yes, putting a DC across a segment or pixel will turn it on. Yes, the liquid is between the glass plates,(the old displays had enough chemicals to feel 'wet' when broken).

Most of the effort in LCD construction is involved with trying to get a good 'on' visibility, with stuff that offers pretty crap contrast in the first place and is the reason for all the layers.

The 'liquid' stuff ages rapidly with just a DC connection, so displays are arranged to be fed by a reversing DC ('ac') drive.

Methods of arranging this 'ac' are legion and is best to look at each product's datasheet to figure out how the segments, pixels, commons and backplanes etc, etc, have been implemented.

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- **References:**
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