

Re: Shaker LED flashlight

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- *From:* "amdx" <amdx@xxxxxxxxxxxx>
 - *Date:* Thu, 10 Jan 2008 06:26:56 -0600
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<mrdarrett@xxxxxxxxxx> wrote in message
news:b0901368-1cd4-4985-93b9-3d8e1411647b@xx

On Jan 9, 10:16 am, "amdx" <a...@xxxxxxxxxxxx> wrote:

Just for fun and as a reinforcement of the electricity books my son has been reading. I bought a shaker flashlight. (magnetic flux cutting across wire moving electrons , the electrons then stored on plates of a capacitor) The flashlight has a magnet that slides back and forth through a coil. The flashlight cost \$1.00. After I opened the package I noted a small screw rattling inside the light, so I took it apart and I found two cr2032 lithium batteries in series powering the LED. The coil is connected to a fullwave bridge and the unit has a .22f capacitor. There is a 10 ohm resistor in series with the LED. If I remove the batteries and short across the holder the LED will not light, no matter how much I shake it. I just found the batteries in there to be a disappointment. :-)
Mike

Well, the good news is, you now know of a cheap source of CR2032 batteries (which can be expensive elsewhere)...

Michael

I was going to post, at least I got two cr2032 batteries inexpensively, but then I decided they are probably worth what I paid for them.
Mike