

Re: How to charge a 9V Ni-MH

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2008-01/msg00259.html>

- *From:* Jim Thompson <To-Email-Use-The-Envelope-Icon@xxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 02 Jan 2008 11:42:46 -0700
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On Wed, 02 Jan 2008 13:15:16 -0500, Fred Bloggs <nospam@xxxxxxxxxx> wrote:

Jim Thompson wrote:

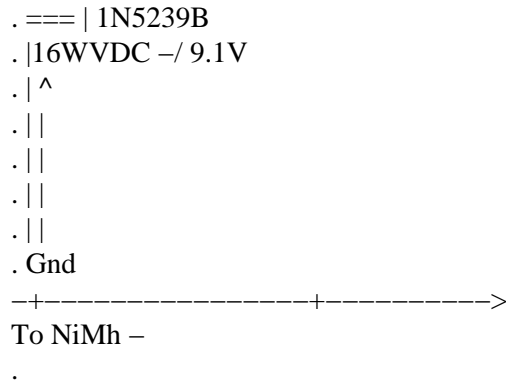
On Tue, 01 Jan 2008 17:08:20 -0500, Fred Bloggs <nospam@xxxxxxxxxx> wrote:

Fred Bloggs wrote:

He can add a 9.1V zener reference diode and automatically taper it off to float charge at full charge of 1.4V/cell, like so, the series diode prevents battery discharge on loss of line power. At 15mA, the 1.7V will be enough headroom for the '317: View in a fixed-width font such as Courier.

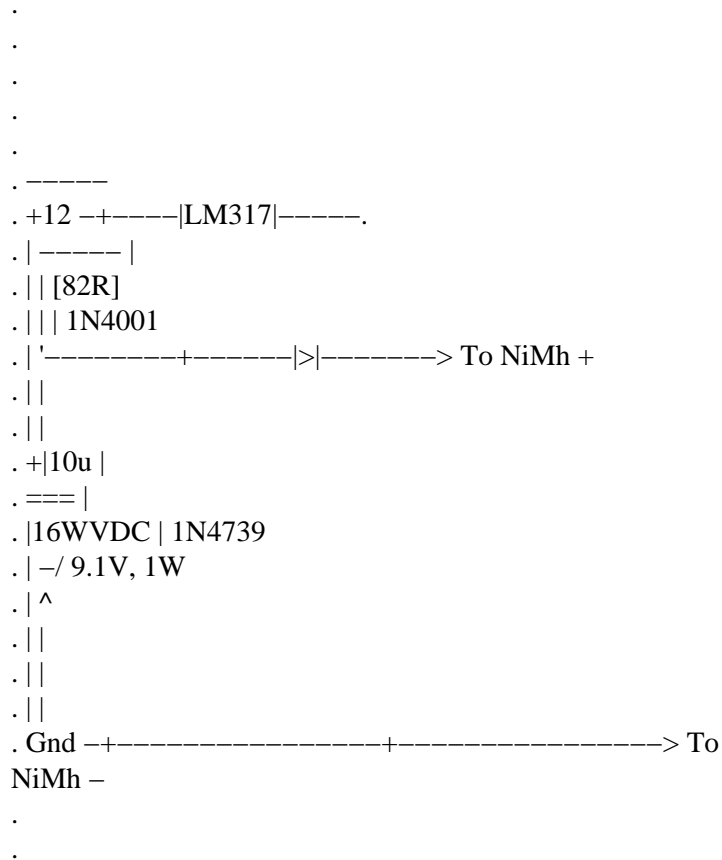
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The characteristic is sharper with the bigger diodes, and it is more likely to withstand a momentary reverse battery connection with a wimpy 150mAH NiMH...all available from Radio Shack.

View in a fixed-width font such as Courier.



I doubt that any off-the-shelf zener is accurate enough for long battery life.

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I'd use a TL431 (or CMOS equivalent) and a pot.

...Jim Thompson

You can always adjust this one in, state of charging indicators added:
View in a fixed-width font such as Courier.

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Yep. Poor man's equivalent to a TL431 ;-)

...Jim Thompson

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America: Land of the Free, Because of the Brave

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