

Re: circuit for charging batteries in cordless Mouse from USB Port

Source: <http://sci.tech-archive.net/Archive/sci.electronics.design/2004-09/7300.html>

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Date: 09/28/04

Date: 28 Sep 2004 16:51:32 GMT

Andrey <a8421@intergate.bc.ca> wrote:

> *Hello All,*

>

> *does anyone knows what would be a proper circuit to charge a pair of Ni MH*

> *batteries (2.4 v) from USB in Cordless Mouse? I opened mine and found*

> *resistor and a diode in series. Such circuit may offer some protection (from*

> *overcurrent and voltage excess to USB) but I do not see how it satisfies*

> *requirements prescribed for Ni MH battery. My mouse is of cheap variety*

> *"made in China" and folks there do not always follow proper design*

> *practices. Looked up Motorola reference design for cordless mouse – they do*

> *not discuss power arrangements at all there.*

A resistor and a diode will be just fine.

If you only charge it until it's full (work out charge current, ...)

If you plug it in overnight, then you should adjust the resistor to give a charge somewhere around C/20.

The 'right' solution would be to fit a proper battery charger circuit, with delta-v detection.