

CCT. Protection switch

Source: <http://sci.tech-archive.net/Archive/sci.electronics.basics/2008-04/msg00019.html>

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 - *Date:* Tue, 01 Apr 2008 13:39:20 GMT
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I'm using a User activated mechanical DPDT to apply a 9VDC alkaline battery to a L7805 regulator. This in turn applies 5V to a pulsed one shot current source 50mA (20mA steady state) ;LOAD #1 on the schematic. The pulsed current is fed to a photovoltaic driver which drives a high side Mosfet (FCD5N60) inserted between the bridge rectifier and the bulk input cap of a flyback converter (flyback ON). This gives a 750uS rise-time to 13V gate to source of the FET.

I'm using the other channel of the driver for a dynamic discharge cct for the FET this gets its power when the switch is flipped to LOAD #2 which is just a 25mA JFET current source. This discharges the FET in 10uS (flyback OFF).

The schematic is here;

<http://i32.tinypic.com/2evdc1i.png>

It shows the output of the flyback from C1 to C4 ;(D1 is a TVS diode).

What I would like to be able to do is in the event of a sustained overvoltage to switch from LOAD #1 to LOAD #2 which shuts the flyback down. What would be the most efficient method of doing this?

Thanks

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