

From: Alana Sherman alana@mbari.org
Subject: Re: Regen circuit question
Date: May 7, 2014 at 9:49 AM
To: Chad Kecz ckecz@mbari.org

AS

Actually, if you had time to come set these pots with me this morning that would be really helpful, I know that may not be possible. we are working in larrys area if it is. do you have any notes on what you set the DC source to on the Vicor can we used the past two years?

Thanks

On May 7, 2014, at 8:19 AM, Chad Kecz wrote:

Neither pot has a fixed resistance value. R19 is part of the adjust branch for U3. It is used to trim the 15V. Measure the 15V while adjusting R19.

R11 is used to adjust the bus threshold. The reference is 1.2V for the comparator circuit (U6).

R11 allows you to go slightly above/below 1.2V. It sets the trigger point for the regen ckt. It can be calibrated by putting in a variable DC source (46 to 54V) and monitoring the output of U6.

R11 allows you to walk in the desired trip voltage.

Hope that helps.

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From: "Alana Sherman" <alana@mbari.org>
To: "Chad Kecz" <ckecz@mbari.org>
Sent: Tuesday, May 6, 2014 4:19:21 PM
Subject: Regen circuit question

Hey Chad

I could not find you and had rather time critical question about the MiniROV regen circuit on the Vicor boards. There are two resistor pots on that board R19 and R11, I can't find in your design notes what they should be set at. One side of the bus seems to work and the values are R19= 5.4 Ohms, R11= 1k Ohm, the binder you made up for the circuit board is sitting on the desk in my office and has several pages of notes that you could probably make better sense of. Dale would like to seal up the can tomorrow if possible so if you could check your notes and confirm the settings of the pots that would be great. Sorry I know you have plenty of other stuff to work on, I tried looking in the binder and the project library hoping to find the answer.

Alana

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