

Dear Sir, please answer

I need to charge 1 cell lead battery (2V). I need 2.5 A charging current, then I set sensing R1=0.1 Ohm

QUESTION: Does the VD1 need? If 5 V off and battery is not charging (and discharging) I need to minimize the possible discharge current through the BQ24450 and VT1. I used previously the same scheme but with a R1=0.4 ohm (and now I need R1=0.1 Ohm) and then present VD1. But at the 2.5 A current VD1 will be very hot and can it be removed? Or if to remove VD1 is leakage through VT1, when 5 V is off? Even 1 mA leakage is unacceptable for me.

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