

Assume SI and S2 have of off segisdance.

When on, SI offers a segistance of RI=1.kr.

When S_1 is a segistance of RI=1.kr.

R2.=1.kr.

R52 " " NBAT - VP = 2V.

" $V_{BAT} - V_P = 2V$.

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(a) Plot the VTC for fig.2 for
$$0 < V_{in} < 5V$$
.

(b) Now assume $R_1 = 1 \text{k.r.}$ when $2V < V_{0} < 2.5V$
 $R_1 = 0.5 \text{k.r.}$ " $V_0 > 2.5V$
 $R_2 = 1 \text{k.r.}$ " $2V < (V_{BAT} - V_P) < 2.5V$
 $R_3 = 0.5 \text{k.r.}$ " $(V_{BAT} - V_P) > 2.5V$

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